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14. ABSTRACT The mission statement of the Lung Cancer Biospecimen Resource Network (LCBRN) states that the LCBRN will collect, annotate, store, and distribute human lung cancer biospecimens in a manner that embraces the highest ethical standards for human subjects research, that conforms to the best practices of biorepository science, and that furthers basic, translational and clinical research in the understanding, diagnosis, and treatment of this disease. Year 5 of the award has been spent collecting and tracking follow-up data collection, building on the informatics infrastructure to support sample searches and distribution, completing histologic quality control and macrodissection, and serving biospecimens to LCBRN investigators.					
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Table of Contents

	<u>Page</u>
I. Introduction	4
II. Progress	
Subject Accrual	
Follow-up Accrual	
Conference Calls	5
Informatics	
Biospecimen Quality Control	
Distribution	
III. Key Research Accomplishments	6
IV. Reportable Outcomes	7
V. Conclusion	8
VI. Appendices	9
Appendix A	
Appendix B	11

Section I: Introduction

The mission statement of the Lung Cancer Biospecimen Resource Network (LCBRN) states that the LCBRN “will collect, annotate, store, and distribute human lung cancer biospecimens in a manner that embraces the highest ethical standards for human subjects research, that conforms to the best practices of biorepository science, and that furthers basic, translational and clinical research in the understanding, diagnosis and treatment of this disease”. The specific aims to support this program include: 1) the creation of a Coordinating Center at The University of Virginia (UVA) that provides standard operating procedures (SOPs), standardized specimen collection kits, informatics infrastructure, quality control procedures and specimen storage as well as being the contact site for investigators using the resources of the LCBRN, 2) the creation of Biospecimen Resource Sites at UVA, the Medical University of South Carolina (MUSC) and Washington University in St. Louis (WUSTL) that will recruit subjects with lung cancer and procure the biospecimens, and 3) the establishment of a centralized biobank of high quality tissue, blood, urine, bronchoscopic washing and saliva samples from lung cancer subjects that are annotated to clinical, laboratory and radiographic data.

Section II: Progress

Subject Accrual

In March of 2014, the Lung Cancer Research Program (LCRP) voted to provide the LCBRN with additional funds for the continued collection of follow-up data only for currently enrolled LCBRN patients. Active enrollments, therefore, ceased on 08/01/2014, and follow-up specimen collection ended on 09/05/2014. 763 patients were enrolled in the LCBRN study since the start of the grant: UVA enrolled 254 subjects, MUSC 213 subjects, and WUSTL 296 subjects. An additional 122 subjects were recruited at the collective sites but were subsequently withdrawn from the study due to various reasons, including benign disease, non-lung cancer related disease, or insufficient sample collection.

Follow-up Accrual

All Resource Sites were provided with a monthly report of patients who are 6 months past-due for their next follow-up data collection. Table 1 below summarizes the data collection performed at each site during the reporting period.

Table 1: LCBRN Follow-up Data Collection

10/17/2014 – 10/14/2015	UVA	WUSTL	MUSC
Total # of patients eligible for follow-up (not including deceased patients)	185	207	157
# of follow-ups collected	311	306	183
# of patients with at least 1 follow-up past due	48	113	97

Conference calls

The LCBRN conference calls now take place on a quarterly basis. Topics for conference calls have dealt with issues regarding follow-up data collection and informatics. Calls have occurred on the following dates: 01/30/2015, 05/01/2015, 07/31/2015. All meeting and conference call minutes are available on the LCBRN Collab Resource Site (<https://collab.itc.virginia.edu/portal>).

Informatics

The LCBRN's central database stores subject identification, clinical data and tracks all aspects of biospecimen procurement. The patient, specimen, QC, specimen inventory, search and distribution modules of the database are fully operational and being used at the Coordinating Center. The Informatics team continues to make improvements to the LCBRN database when necessary and is currently working on a plan to transfer LCBRN data to the Cooperative Human Tissue Network (CHTN) in 2017.

The LCBRN website (<http://www.lcbrn.org>) has been updated to include all digital H&E images of FFPE tumors that are available. Scanned images can be found on the *Access H&E Images* page of the LCBRN website.

Biospecimen Quality Control

Histologic quality control for all cases were completed in July 2015 with macrodissection being completed soon thereafter in September 2015. Molecular quality control is currently being performed on all cases where additional tumor tissue is available. RQI values of 7 or above indicate excellent quality RNA, values between 4 and 7 are considered moderate, and any values below 4 indicate poor quality RNA. The majority of LCBRN tissue samples fall into the moderate to excellent quality range (average RQI of 6.1).

Distribution

The Coordinating Center received a total of 134 inquiries from investigators seeking information about the LCBRN's resources since the start of distribution. 32 investigators have submitted applications; 25 were accepted without any changes, 6 were accepted with modifications, and 1 was rejected. The investigators with applications that were accepted with modifications were given suggestions to make better use of LCBRN resources, or had research that was deemed too risky and were therefore offered a smaller sample set than was originally requested for the purpose of obtaining preliminary results. The application that was rejected was due to the rare type of tumor requested. Of noted interest, the LCBRN received a request for clinical data only, which included the already accumulated clinical data on all LCBRN patients, as well as for additional data that was not already included in the cost of biospecimens. Although this project demanded extensive time and effort on the part of the LCBRN, this application was approved and is indicative of the value that many investigators place on having a

resource available to them that can provide detailed clinical annotation, thus furthering the advancement of cancer research. A summary of LCBRN distributions are outlined in Table 2 below.

Table 2: LCBRN Distributions (06/01/2013-10/14/2015)

# Frozen tumor tissue	84	# Normal tissue RNA	51
# Frozen non-neoplastic tissue	77	# Tumor tissue DNA	135
# Serum aliquots	714	# Normal tissue DNA	32
# Plasma aliquots	369	# Tumor tissue protein	10
# Urine aliquots	237	# Normal tissue protein	9
# Saliva aliquots	69	# Unstained slides	444
# BAL fluid aliquots	40	Total # of samples distributed	2490
# BAL cell pellet	30	Request for LCBRN data only, per record	285
# Buffy coat RNA	10	Request for additional charts/data, per record	311
# Buffy coat DNA	3	Total Amount Invoiced	\$108,195.00
#Tumor tissue RNA	176	Total Amount Paid	\$94,541.00

The LCBRN submitted an application to the NCI for their Assay Development Program in September 2013 in response to their request seeking applications from tissue and laboratory resources. The application proposed that the NCI subcontract the LCBRN for any of their lung cancer biospecimen needs, which will in turn help the LCBRN increase sample distribution while providing researchers with a valuable resource. The NCI approved the LCBRN's application but unexpectedly decided not to pursue its previously proposed collaboration with the LCBRN. There was no reason given for this decision other than that they decided not to pursue the project.

Section III: Key Research Accomplishments

- Tracked and collected clinical data on all patients eligible for follow-up
- Successfully implemented quarterly conference calls with minutes recorded and retained on the LCBRN Collab online resource
- Completed histologic quality control and macrodissected on all tissue specimens stored at the Coordinating Center

- Shipped 2490 biospecimens to investigators, all with positive feedback
- Performed and distributed 311 extensive chart reviews
- Distributed marketing emails to the Directors of all NCI-designated Cancer Centers and to researchers who have applied to the NIH for a lung cancer grant

Section IV: Reportable Outcomes

UVA - Cumulative Metrics

Number of subjects currently enrolled in study: 254

Number of subjects withdrawn from study: 64

Reasons for withdrawal from study: Benign disease (31), Ineligible to continue (27),

Withdrew consent (6)

Number of subjects withdrawn from follow-up: 69 (deceased)

Percentage of subjects who have tissue collection: 89%

Percentage of subjects who have at least 1 follow-up specimen collection: 72%

Percentage of subjects who have at least 1 follow-up data collection: 99%

WUSTL - Cumulative Metrics

Number of subjects currently enrolled in study: 296

Number of subjects withdrawn from study: 31

Reasons for withdrawal from study: Benign disease (18), Ineligible to continue (12), Withdrew consent (1)

Number of subjects withdrawn from follow-up: 89 (deceased)

Percentage of subjects who have tissue collection: 80%

Percentage of subjects who have at least 1 follow-up specimen collection: 50%

Percentage of subjects who have at least 1 follow-up data collection: 97%

MUSC - Cumulative Metrics

Number of subjects currently enrolled in study: 213

Number of subjects withdrawn from study: 26

Reasons for withdrawal from study: Benign disease (8), Ineligible to continue (17), Withdrew consent (1)

Number of subjects withdrawn from follow-up: 56 (deceased)

Percentage of subjects who have tissue collection: 85%

Percentage of subjects who have at least 1 follow-up specimen collection: 53%

Percentage of subjects who have at least 1 follow-up data collection: 83%

LCBRN Consortium - Cumulative Metrics

Number of subjects currently enrolled in study: 763

Number of subjects withdrawn from study: 121

Reasons for withdrawal: Benign disease (57), Ineligible to continue (56), Withdrew consent (8)

Number of subjects who died during the study: 214

Percentage of subjects who have tissue collection: 85%

Percentage of subjects who have tumor tissue collection: 78%

Percentage of subjects with a military history: 20%

Percentage of subjects who have never smoked: 9%

Percentage of subjects who are Caucasian: 90%

Percentage of subjects who are male: 52%

Mean age of subjects: 65 years

Number of applications received: 32

Number of applications approved: 31

Number of samples distributed: 2490

Total amount invoiced: \$108,195.00

Total amount received: \$94,541.00

Section V: Conclusion

The LCBRN is successfully reviewing applications for suitability and distributing samples to investigators, all of whom have given positive feedback. In an effort to address the underutilization of its resources, the LCBRN sent out another marketing email in January 2015 to the Directors of all NCI-designated Cancer Centers and to 187 researchers who have applied to the NIH for a lung cancer grant. The response from the research community was not as large as expected but several new inquiries were still received as well as continued interest from existing investigators. The LCBRN is still seeking new avenues to help market its resources and has found many of its current investigators to be excellent references for obtaining new applicants.

Although new subject enrollments and specimen collection have ceased, the LCBRN is committed to the outcome of this project, which is a bank of high quality and highly annotated biospecimens from lung cancer patients that will support research into the molecular basis of this disease, the discovery of diagnostic and prognostic biomarkers, and the validation of new biomarker assays. Samples will continue to be distributed under the support of the Department of Defense CDMRP until a plan to absorb any remaining biospecimens into the Cooperative Human Tissue Network (CHTN), for which the LCBRN Coordinating Center P.I. is a member, is complete. It is a priority that this valuable resource remains available to the general research community, with a panel of experts ensuring its judicious use by projects with a significant likelihood of creating new knowledge of human lung cancer and innovative tools for the diagnosis and treatment of this disease.

Section VI: Appendices

Appendix A: Banked Biosample Summary, 10-14-2015

<u>Metric</u>	<u>Followup Event</u>	<u>MUSC</u>	<u>UVA</u>	<u>WUSTL</u>	<u>TOTAL</u>
# Subj -- frozen cancer tissue collected		178	222	203	603
# Subj -- biofluid only		31	35	68	134
# Subj -- without cancer, withdrawn from followup		8	31	18	57
# Subj -- total withdrawals		26	64	31	121
# Aliq -- frozen tumor in bank		733	897	632	2262
# Aliq -- frozen lung in bank		792	1059	706	2557
# Aliq -- frozen bronchus in bank		273	311	152	736
# FFPE -- with tumor after QC		147	211	157	515
# FFPE -- non neopl lung		155	246	228	629
# FFPE -- non neopl bronchus		113	178	86	377
# Aliq -- serum (presurg) in bank		1450	2197	2400	6047
# Aliq -- plasma (presurg) in bank		1304	1849	2036	5189
# Aliq -- urine (presurg) in bank		1762	2217	2266	6245
# Aliq -- saliva (presurg) in bank		531	720	819	2070
# Aliq -- BAL fluid (presurg) in bank		804	1071	1635	3510
# Aliq -- serum (postsurg) in bank	1	536	1034	597	2167
# Aliq -- serum (postsurg) in bank	2	263	584	301	1148
# Aliq -- serum (postsurg) in bank	3	126	400	223	749
# Aliq -- serum (postsurg) in bank	4	53	198	125	376
# Aliq -- serum (postsurg) in bank	5	7	15	39	61
# Aliq -- serum (postsurg) in bank	6	10	0	24	34
# Aliq -- serum (postsurg) in bank	7	0	9	7	16
# Aliq -- plasma (postsurg) in bank	1	443	916	526	1885
# Aliq -- plasma (postsurg) in bank	2	229	518	256	1003
# Aliq -- plasma (postsurg) in bank	3	122	332	189	643
# Aliq -- plasma (postsurg) in bank	4	46	162	102	310
# Aliq -- plasma (postsurg) in bank	5	7	13	30	50
# Aliq -- plasma (postsurg) in bank	6	9	0	20	29
# Aliq -- plasma (postsurg) in bank	7	0	7	6	13
# Aliq -- urine (postsurg) in bank	1	625	1269	547	2441
# Aliq -- urine (postsurg) in bank	2	370	698	240	1308
# Aliq -- urine (postsurg) in bank	3	199	528	125	852
# Aliq -- urine (postsurg) in bank	4	70	240	110	420

# Aliq -- urine (postsurg) in bank	5	16	16	40	72
# Aliq -- urine (postsurg) in bank	6	16	0	32	48
# Aliq -- urine (postsurg) in bank	7	0	8	0	8
# Aliq -- saliva (postsurg) in bank	1	276	549	388	1213
# Aliq -- saliva (postsurg) in bank	2	0	9	8	17
# Aliq -- saliva (postsurg) in bank	3	0	4	0	4

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
S0001	Adenocarcinoma	Stage IIB	Y	N	0.38	70	50	15	2	3	0.210	2		0.035	2	No - Quit Smoking	10		None	None
S0002	Adenocarcinoma	Stage IIA	Y	N	0.32	70	40	0	2	3	0.570	2		0.300	2	Never Smoked			None	None
S0003	Adenocarcinoma	Stage IB	Y	N	0.027	100	60	0	2		0.084	2		0.300	2	No - Quit Smoking	38	AR	Second-hand smoke	Second-hand smoke
S0004	Squamous Cell Carcinoma	Stage IIB	Y	N	1.942	20	80	5	10	7	4.903	10	8	0.300	3	No - Quit Smoking	75	AR	Asbestos , Coal mining, Second-hand smoke	Asbestos , Coal mining, Second-hand smoke
S0004	Squamous Cell Carcinoma	Stage IIB	Y	N	1.942	100	75	5	10	7	4.903	10	8	0.300	3	No - Quit Smoking	75	AR	Asbestos , Coal mining, Second-hand smoke	Asbestos , Coal mining, Second-hand smoke
S0006	Adenocarcinoma	Stage IB	Y	N	0.38	80	40	0	2	3	0.310	2	4			No - Quit Smoking	37		None	None
S0007	Squamous Cell Carcinoma	Stage IB	Y	N	0.43	60	50	0	2	2	0.700	3	4	0.530	3	No - Quit Smoking	30		None	None
S0008	Adenocarcinoma	Stage IIB	Y	N	0.57	50	50	5	2	3	0.260	1	4	0.070	2	No - Quit Smoking	72		None	None
S0010	Adenocarcinoma	Stage IB	Y	N	0.18	40	70	0	1		0.210	1	3	0.170	2	Never Smoked			None	None
S0011	Adenocarcinoma	Stage IIIA	Y	N	0.86	80	50	0	3	3	0.120	1	4	0.170	2	No - Quit Smoking	45	AR	Second-hand smoke	Second-hand smoke
S0012	Adenocarcinoma	Stage IB	Y	N	1.8	50	40	10	3	3	0.120	2		0.120	2	Yes - Current Smoker	120		None	None
S0013	Adenocarcinoma	Stage IA	Y	N	0.108	50	70	0	1		0.532	2	3	0.392	1	Yes - Current Smoker			None	None
S0014	Adenocarcinoma	Stage IIB	Y	N	1.56	80	70	20	3	2	0.700	3		0.190	2	Yes - Current Smoker	20		None	None
S0015	Adenocarcinoma	Stage IA	Y	N	0.05	100	70	0	2		0.670	2		0.080	2	No - Quit Smoking	45		None	None
S0016	Squamous Cell Carcinoma	Stage IA	N	N							0.673	2		0.105	2	Yes - Current Smoker	58		None	None
S0017	Squamous Cell Carcinoma	Stage IA	Y	N	0.519	60	70	5	2	2	1.620	2		0.250	2	Yes - Current Smoker		AF	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
S0018	Squamous Cell Carcinoma	Stage IA	Y	N	0.056	97	80	0	2		0.140	1	3	0.038	2	No - Quit Smoking	58	AF	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
S0019	Adenocarcinoma	Stage IA	Y	N	0.054	100	70	0	1		0.058	2	3	0.023	2	Never Smoked			None	None
S0022	Squamous Cell Carcinoma	Stage IA	Y	N	0.499	60	60	15	3	3	0.718	3		0.196	2	No - Quit Smoking	62	AR	Second-hand smoke	Second-hand smoke
S0023	Adenocarcinoma	Stage IA	Y	N	0.022	10	70	0	2		0.320	2	3	0.180	2	No - Quit Smoking			None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
S0024	Adenocarcinoma	Stage IB	Y	N	0.138	100	60	0	2	2	0.087	2				Yes - Current Smoker	52	MR	None	None
S0025	Squamous Cell Carcinoma	Stage IIA	Y	Y	0.049						0.083	2		0.022	2	No - Quit Smoking	50	AR	Second-hand smoke	Second-hand smoke
S0026	Bronchioalveolar Carcinoma	Stage IB	Y	N	0.215	100	50	0	1	3	0.115	1	4	0.103	2	No - Quit Smoking			None	None
S0027	Adenocarcinoma	Stage IA	Y	N	0.02	50	10	0	2			2	3			No - Quit Smoking	105	AR	Second-hand smoke	Second-hand smoke
S0028	Squamous Cell Carcinoma	Stage IIIB	N	N												No - Quit Smoking	150	AF	Jet fuel, Nuclear weapons, Second-hand smoke	Jet fuel, Nuclear weapons, Second-hand smoke
S0029	Squamous Cell Carcinoma	Stage IIA	Y	N	0.06	100	40	0	1	4	.571	1	8	.043	1	No - Quit Smoking		AR	Second-hand smoke	Second-hand smoke
S0030	Adenocarcinoma	Stage IA	Y	N	0.034	1	1	0	1		.488	2	3	.583	3	No - Quit Smoking	66		None	None
S0031	Adenocarcinoma	Stage IIA	Y	N	0.044	30	4	0	1		.062	1				No - Quit Smoking	32		None	None
S0032	Adenocarcinoma	Stage IA	Y	N	0.066	30	20	0	1		1.50	3	3	.047	1	No - Quit Smoking	15		None	None
S0033	Squamous Cell Carcinoma	Stage IA	Y	N	0.318	50	80	0	2		.902	5	6	.086	1	No - Quit Smoking			None	None
S0035	Adenocarcinoma	Stage IA	Y	Y	1.5	40	70	0	2		1.30	3	3	.31	1	No - Quit Smoking	33		None	None
S0036	Squamous Cell Carcinoma	Stage IB	Y	N	0.016	55	40	0	1		.07	1				No - Quit Smoking	60	AF	Second-hand smoke	Second-hand smoke
S0037	Squamous Cell Carcinoma	Stage	Y	N	1.2	100	70	50	2		.802	3	3	.07	1	No - Quit Smoking			None	None
S0038	Adenocarcinoma	Stage IB	Y	N	0.877	95	70	10	3	8	2.79	3	4	.277	2	No - Quit Smoking	110	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
S0039	Small Cell Carcinoma	Stage IA	Y	N	0.288	100	80	15	2	10	.417	2	4	.098	1	No - Quit Smoking	53		None	None
S0040	Squamous Cell Carcinoma	Stage IA	Y	N	0.217	90	80	5	1	3	.725	2	3	.115	2	No - Quit Smoking	35	MR	Second-hand smoke	Second-hand smoke
S0041	Squamous Cell Carcinoma	Stage	Y	N	0.443	90	60	10	3	4	.797	3	4	.311	2	Yes - Current Smoker	45		None	None
S0042	Adenocarcinoma	Stage IB	Y	N	0.99	80	70	5	3	3	2.39	4		.15	1	No - Quit Smoking	45		None	None
S0043	Adenocarcinoma	Stage IIA	Y	N	0.181	80	70	0	1	21	.22	1	12			Yes - Current Smoker	40		None	None
S0045	Adenocarcinoma	Stage	Y	N	0.15	25	80	0	1		.162	1		.11	1	No - Quit Smoking	30		None	None
S0046	Adenocarcinoma	Stage IB	Y	N	0.182	100	100	80	1	4	1.26	1	4	.20	1	Yes - Current Smoker	25		None	None
S0047	Squamous Cell Carcinoma	Stage IA	Y	N	0.26				1		.078	1		.115	1	No - Quit Smoking	15		None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
S0050	Squamous Cell Carcinoma	Stage IIB	Y	N	0.58	60	80	10	3	4	.09		4	.182	2	Yes - Current Smoker	75		None	None
S0051	Adenocarcinoma	Stage IA	Y	N	0.063	55	80	0		8	.545	1	8	.398	2	No - Quit Smoking	42		None	None
S0052	Squamous Cell Carcinoma	Stage IA	Y	N	0.085	100	90	0	1		.107	1				Yes - Current Smoker			None	None
S0053	Adenocarcinoma	Stage IA	Y	N	0.068	40	10	50	1		.495	1		.333	2	No - Quit Smoking	45		None	None
S0054	Carcinoid Tumor: Typical	Stage IB	Y	N	0.143	100	99	0	1	4	.128	1	4	.23	1	No - Quit Smoking	10		None	None
S0055	Adenocarcinoma: Mucinous Features	Stage IIB	Y	N	0.39	90	60	0	3	8	.398	4	8	.360	2	No - Quit Smoking	20	AF	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
S0056	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.436	90	80	15	2	2	.312	2	3	.118	1	No - Quit Smoking	23		None	None
S0057	Adenocarcinoma: BAC features	Stage IA	N	N						4	.321	2	4	.16	1	Yes - Current Smoker	19		None	None
S0058	Adenocarcinoma	Stage IIIA	Y	N	0.5	30	60	10		4	.543	2	4	.366	2	Yes - Current Smoker	4		None	None
S0061	Adenocarcinoma: BAC features	Stage IIA	N	N						4	.234	1	4	.088	1	No - Quit Smoking	15		None	None
S0062	Adenocarcinoma: BAC features	Stage IA	Y	N	0.354	85	75	0	2	8	.145		4	.14	1	No - Quit Smoking	30		None	None
S0063	Small Cell Carcinoma	Stage IA	Y	N		100	90	5	2	5		2	4			No - Quit Smoking	60		None	None
S0066	Undifferentiated Carcinoma: Large Cell	Stage IA	Y	N	0.01				1		.01	1				No - Quit Smoking	49		None	None
S0067	Undifferentiated Carcinoma: Large Cell	Stage IIIA	Y	N	0.254	90	90	70	1	8	.354	1	8	.105	1	No - Quit Smoking	20		None	None
S0068	Adenocarcinoma	Stage IB	Y	N	0.065	90	70	5		8	.643	2	8	.133	1	No - Quit Smoking	165	AR	Second-hand smoke	Second-hand smoke
S0070	Squamous Cell Carcinoma	Stage IIB	Y	N	2.161	100	40	10	2	8	1.098	4	8	.581	2	No - Quit Smoking	55		Second-hand smoke	Second-hand smoke
S0071	Adenocarcinoma	Stage IA	Y	N	0.138	100	70	0	1	4	.231	1	4	.089	1	No - Quit Smoking	30		None	None
S0072	Squamous Cell Carcinoma	Stage	Y	N	0.046	100	70	0	1	16	.188	3	16	.075	1	No - Quit Smoking	19		None	None
S0073	Squamous Cell Carcinoma	Stage IIA	Y	N	0.1	100	50	5	1	16	.166	4	16	.206	1	Yes - Current Smoker	64		None	None
S0074	Adenocarcinoma	Stage IA	Y	N	0.201	100	40	0		8	.298	2	8	.22	1	No - Quit Smoking	60		None	None
S0077	Squamous Cell Carcinoma	Stage IB	Y	N	0.136	100	80	5	1	8	.189	1	8	.302	2	No - Quit Smoking	40		None	None
S0078	Adenocarcinoma	Stage	Y	N	0.611	100	70	0	3	8	.990	3	8	.12	1	No - Quit Smoking	20		None	None
S0080	Adenocarcinoma	Stage IA	Y	N	0.074	70	50	10	1		.21	1		.078	1	Never Smoked			None	None
S0082	Adenocarcinoma: BAC features	Stage IB	Y	N	0.297	100	70	0	1	8	.198	1	8	.08	1	No - Quit Smoking	12		None	None
S0083	Adenocarcinoma: BAC features	Stage IA	Y	N	0.185	100	70	0	2	8	.126	1	8	.087	1	No - Quit Smoking	80	NV	Second-hand smoke	Second-hand smoke

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S0084	Adenocarcinoma	Stage IA	Y	Y	0.175	100	0	100	1		.257	2		.074	1	Yes - Current Smoker	32		None	None
S0085	Adenocarcinoma: BAC features	Stage IA	Y	N	0.282	90	70	0	2	8	.783	2	8	.129	1	Yes - Current Smoker	40		None	None
S0088	Undifferentiated Carcinoma: Large Cell	Stage IB	Y	N	0.895	100	50	5	4	8	.512	4	8	.285	2	Yes - Current Smoker			None	None
S0090	Squamous Cell Carcinoma	Stage IB	Y	N	1.308	100	50	20	2	8	.450	4	8	.155	2	No - Quit Smoking	21	AR	Second-hand smoke	Second-hand smoke
S0091	Squamous Cell Carcinoma	Stage IIB	Y	N	0.149	100	70	0		12	.132		8	.092	1	No - Quit Smoking	50	AR	Agent Orange, Nuclear weapons, Second-hand smoke	Agent Orange, Nuclear weapons, Second-hand smoke
S0092	Squamous Cell Carcinoma	Stage IIB	Y	N	0.2	40	20	0			.410	3		.008	2	No - Quit Smoking	30		None	None
S0093	Adenocarcinoma	Stage IIB	Y	N	0.82	90	60	10	5	4	.319	2	4	.135	1	Yes - Current Smoker	8		None	None
S0094	Adenocarcinoma	Stage IB	Y	N	0.306	100	60	0	1	8	.210	1	8	.07	1	Yes - Current Smoker	55		None	None
S0095	Adenocarcinoma	Stage	Y	N	2.615	100	40	10	3		4.309	4		.884	7	No - Quit Smoking	34		None	None
S0098	Undifferentiated Carcinoma: Large Cell	Stage IA	Y	N		100	80	5	2	8		2	9		1	No - Quit Smoking	50	AR	Agent Orange, Nuclear weapons, Second-hand smoke	Agent Orange, Nuclear weapons, Second-hand smoke
S0099	Carcinoid Tumor: Typical	Stage IIIA	Y	N	0.02	85	100	0		8	.03		8	.03	1	Never Smoked			None	None
S0100	Squamous Cell Carcinoma	Stage IB	Y	N	0.048	50	30	10		4	.087		4			Never Smoked			None	None
S0105	Adenosquamous Carcinoma	Stage	Y	N	0.637	100	80	15	3	8	.739	3	8	.09	1	No - Quit Smoking	71		None	None
S0107	Adenocarcinoma: BAC features	Stage IIB	Y	N	4.747	80	60	0	14	4	6.678	14	4			Yes - Current Smoker	40		None	None
S0108	Squamous Cell Carcinoma	Stage IIIA	Y	N	11.59	40	40	15	10	4	12.20	10	4	.25	1	No - Quit Smoking	63		None	None
S0109	Adenocarcinoma	Stage IIIA	Y	N	0.659	90	30	0	2	4	1.750	2	4	.21	1	No - Quit Smoking	2		None	None
S0110	Adenocarcinoma		Y	N	0.485	75	70	0	2	4	.494	2	4			Yes - Current Smoker	60		None	None
S0112	Squamous Cell Carcinoma	Stage IIA	Y	N	3.465	80	70	30	5	4	2.172	7	4	.411	2	No - Quit Smoking	40		None	None
S0115	Adenocarcinoma: BAC features	Stage IA	Y	N	0.35	95	70	0	2	4	.870	2	4	.131	1	No - Quit Smoking	20		None	None
S0117	Small Cell Carcinoma	Stage IA	Y	N	0.093	95	80	10	1	12	1.916	5	9	.250	2	Yes - Current Smoker	50		None	None

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S0119	Adenocarcinoma	Stage IV	Y	N	0.33	90	60	0	2	4	.356	2	4	.322	1	No - Quit Smoking	12		None	None
S0121	Undifferentiated Carcinoma: Large Cell	Stage IIB	Y	N	2.043	90	80	10	15	8	1.407	7	4	.477	1	No - Quit Smoking	20		None	None
S0122	Small Cell Carcinoma	Stage IA	Y	N	0.181	40	90	0	1		.134	1		.138	1	No - Quit Smoking	8		None	None
S0124	Adenocarcinoma	Stage IB	Y	N	1.099	100	90	5	5	4	0.732	3	4	0.334	2	Yes - Current Smoker	80		None	None
S0125	Adenocarcinoma	Stage IA	Y	N	0.08	100	90	0	1		.10	1		.175	1	Yes - Current Smoker	27		None	None
S0126	Adenocarcinoma	Stage IIA	Y	N	1.462	85	90	0	5	4	0.521	3	4	0.226	1	Yes - Current Smoker	8		None	None
S0127	Squamous Cell Carcinoma	Stage IA	Y	N	0.151	90	85	0	1		1.25	1		.33	1	No - Quit Smoking	38		Second-hand smoke	Second-hand smoke
S0128	Adenocarcinoma	Stage IIIA	Y	N	0.307	100	70	0	1	4	4.708	5	4			No - Quit Smoking	94	NV	Second-hand smoke	Second-hand smoke
S0129	Squamous Cell Carcinoma		Y	N	4.618	100	98	10	15	4	1.777	6	4	1.010	4	No - Quit Smoking	28	NV	Second-hand smoke	Second-hand smoke
S0130	Squamous Cell Carcinoma	Stage IB	Y	N	2.278	100	50	10	8	4	1.734	8	4	.483	2	Yes - Current Smoker	6		None	None
S0131	Adenocarcinoma	Stage IV	Y	N	0.21	70	60	0	1		.38	1		.13	1	No - Quit Smoking	48		None	None
S0134	Adenocarcinoma	Stage IA	Y	N	0.246	40	30	0	1		.27	1		.16	1	Never Smoked			None	None
S0135	Squamous Cell Carcinoma	Stage IIA	Y	N	0.302	90	80	0	1	4	1.936	1	4	.35	1	Yes - Current Smoker	22		None	None
S0136	Adenocarcinoma: Mucinous Features	Stage IA	Y	N	0.334	95	90	0	1		0.305	1		.035	1	No - Quit Smoking	40		None	None
S0137	Squamous Cell Carcinoma	Stage IB	Y	N	0.21	95	70	5	1		0.157	1		.21	1	Yes - Current Smoker	80		None	None
S0138	Adenocarcinoma	Stage IB	Y	N	1.054	100	80	15	5	4						Yes - Current Smoker	13		None	None
S0142	Adenocarcinoma: BAC features	Stage IA	Y	N	0.12	75	50	0	1		.43	1		.20	1	No - Quit Smoking	29		None	None
S0143	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.86	85	80	0	4	4	1.340	4	4	0.349	2	Yes - Current Smoker	16		None	None
S0144	Squamous Cell Carcinoma	Stage IB	Y	N	0.64	100	75	10	3	4	0.581	3	4			Yes - Current Smoker	25		None	None
S0145	Carcinoid Tumor: Typical	Stage IA	Y	N	0.01	100	100	0	1		0.105	1				No - Quit Smoking	20		None	None
S0146	Adenocarcinoma	Stage IIIA	Y	N	0.587	100	75	5	2	4	2.696	3	4	.21	1	Yes - Current Smoker	16		None	None
S0148	Adenocarcinoma	Stage IA	Y	Y	0.03	25	30	0	1		0.065	1		0.039	1	Never Smoked			None	None
S0149	Adenocarcinoma	Stage IIA	Y	N	10.412	90	60	10	10	4	1.804	7	4	1.66	3	No - Quit Smoking	60		None	None

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S0150	Adenocarcinoma	Stage IA	Y	N	0.12	10	70	0	1		.045	1				No - Quit Smoking	14		None	None
S0153	Adenocarcinoma	Stage IIA	Y	N	0.561	100	70	0	3	4	0.604	3	4	.13	1	No - Quit Smoking	0		None	None
S0154	Adenocarcinoma	Stage IA	Y	N	0.14	45	95	0	1		.10	1				No - Quit Smoking	8		None	None
S0155	Carcinoid Tumor: Typical	Stage IA	Y	N	0.274	85	95	0	1	4	0.389	1	4	0.259	2	No - Quit Smoking	1		None	None
S0156	Squamous Cell Carcinoma	Stage IIB	Y	N	1.296	85	90	0	3	4	1.189	3	4	1.170	4	No - Quit Smoking	30		Agent Orange, Asbestos, Second-hand smoke	Agent Orange, Asbestos, Second-hand smoke
S0159	Squamous Cell Carcinoma	Stage IIB	Y	N	0.383	100	60	20	2	4	0.830	2	4	0.299	2	Yes - Current Smoker	40		None	None
S0160	Squamous Cell Carcinoma	Stage IIA	Y	N	1.974	80	25	0	5	4	0.758	5	4	0.680	2	Yes - Current Smoker	48	NV	None	None
S0167	Carcinoid Tumor: Atypical	Stage IIB	Y	N	0.759	90	95	0	2	4						Never Smoked			None	None
S0168	Squamous Cell Carcinoma	Stage IB	Y	N	6.561	90	40	0	13	4	2.411	13	4	0.557	2	Yes - Current Smoker	47		None	None
S0170	Squamous Cell Carcinoma	Stage IA	Y	N	0.019	100	30	0	1		.086	1				No - Quit Smoking	84	NV	Asbestos, Jet fuel, Nuclear weapons, Nuclear-powered engines, Second-hand smoke	Asbestos, Jet fuel, Nuclear weapons, Nuclear-powered engines, Second-hand smoke
S0172	Adenocarcinoma	Stage IA	Y	N	0.11	100	95	0	1		1.424	3		.12	1	No - Quit Smoking	7		None	None
S0173	Carcinoid Tumor: Atypical	Stage IIA	Y	N	0.349	100	90	0	1	4	0.258	1	4	.15	1	Yes - Current Smoker	45		None	None
S0174	Squamous Cell Carcinoma	Stage IA	Y	N	1.705	95	85	20	7	4	3.408	10	4	.13	1	No - Quit Smoking	40		None	None
S0175	Adenocarcinoma	Stage IB	Y	N	0.463	66	95	0	1	4	1.819	2	4	.36	1	No - Quit Smoking	23	AF	Agent Orange, Jet fuel, Second-hand smoke	Agent Orange, Jet fuel, Second-hand smoke
S0176	Adenocarcinoma	Stage IIIA	Y	N	1.993	95	80	0	9	4	1.110	6	4	0.711	2	No - Quit Smoking	17	MB	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
S0177	Squamous Cell Carcinoma	Stage IA	Y	N	0.84	40	40	10	3	4	2.446	3	4	0.425	2	No - Quit Smoking	90	AR	Second-hand smoke	Second-hand smoke
S0178	Squamous Cell Carcinoma	Stage IIA	Y	N	1.506	100	90	25	7	4	1.971	7	4	1.196	4	No - Quit Smoking	50		None	None
S0179	Adenocarcinoma	Stage IB	Y	N	1.041	60	50	0	2	4	2.010	2	4	1.044	3	No - Quit Smoking	66	AR	Second-hand smoke	Second-hand smoke

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S0180	Squamous Cell Carcinoma	Stage IA	Y	N	2.464	95	90	20	7	4	3.152	7	4	0.626	2	No - Quit Smoking	30		None	None
S0181	Carcinoid Tumor: Typical	Stage IA	Y	N	0.217	95	95	0	1	4	0.699	1	4	0.126	1	No - Quit Smoking	0		None	None
S0182	Undifferentiated Carcinoma: Large Cell	Stage IIA	Y	N	0.446	100	90	0	2	4	1.256	2	4	0.722	3	Yes - Current Smoker	49		None	None
S0184	Solitary Fibrous Tumor	Stage IIA	Y	N	8.033	55	90	25	9	4	4.464	9	4	0.669	3	No - Quit Smoking	68	MR	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
S0185	Adenocarcinoma: BAC features	Stage IIB	Y	N	4.353	10	50	0	5	4	.37	1	4	.56	1	Never Smoked			None	None
S0186	Adenocarcinoma	Stage IB	Y	N	0.478	70	50	5	1	4	0.444	1	4			No - Quit Smoking	40		None	None
S0187	Carcinoid Tumor: Typical	Stage IB	Y	N	2.346	100	98	0	7	4	2.025	7	4	.25	1	No - Quit Smoking	50		None	None
S0188	Squamous Cell Carcinoma	Stage IIA	Y	N	2.936	90	60	5	6	4	4.890	6	4	0.509	2	No - Quit Smoking	45		None	None
S0190	Squamous Cell Carcinoma	Stage IB	Y	N	1.3	90	85	5	2	4	11.166	7	4	0.467		No - Quit Smoking	3		None	None
S0191	Adenocarcinoma	Stage IIIA	Y	N	0.96	60	70	0	2	4	0.525	1	4	1.218	2	No - Quit Smoking	1	AR	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
S0192	Carcinoid Tumor: Atypical	Stage IB	Y	N	2.577	97	95	0	7	4	1.248	5	4	0.360		No - Quit Smoking	35		None	None
S0193	Adenocarcinoma: BAC features	Stage IIB	Y	N	6.688	60	75	0	5	4	2.918	7	4	1.125	2	No - Quit Smoking	10	AF	Nuclear-powered engines, Second-hand smoke	Nuclear-powered engines, Second-hand smoke
S0195	Squamous Cell Carcinoma	Stage IIB	Y	N	3.557	100	80	50	10	4	0.629	2	4	.05	1	No - Quit Smoking	40		None	None
S0196	Adenocarcinoma: BAC features	Stage IIA	Y	N	1.779	100	70	0	3		1.332	3		0.255	2	Never Smoked			None	None
S0200	Adenocarcinoma	Stage IA	Y	N	0.09	90	60	0	2		0.324	2		0.045	1	No - Quit Smoking	9	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
S0201	Adenocarcinoma: BAC features	Stage IB	Y	N	0.685	50	50	0	2		2.342	3		0.354	2	Yes - Current Smoker	20		None	None
S0206	Adenocarcinoma	Stage IA	Y	N	1.64	5	60	0		4	1.657	2	4	.38	1	No - Quit Smoking	50	AR	Second-hand smoke	Second-hand smoke
S0208	Squamous Cell Carcinoma	Stage IB	Y	N	0.841	95	50	25	4		0.559	3		.07	1	No - Quit Smoking	30	AR	Second-hand smoke	Second-hand smoke
S0213	Squamous Cell Carcinoma	Stage IB	Y	N	0.698	60	70	25	2		0.547	3		0.454	2	No - Quit Smoking	30		None	None
S0216	Adenocarcinoma	Stage IB	Y	N	0.83	100	30	0	4	4	1.039	5	4	0.401	1	No - Quit Smoking	106	AR	Second-hand smoke	Second-hand smoke
S0217	Adenocarcinoma	Stage IA	Y	N	0.09	90	60	5		4	.13		4			No - Quit Smoking	33		None	None

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S0219	Adenocarcinoma: BAC features		Y	N	0.398	100	85	5	2	4	0.467	2	4			Never Smoked		NV	Asbestos , Jet fuel, Nuclear-powered engines, Radon, Second-hand smoke	Asbestos , Jet fuel, Nuclear-powered engines, Radon, Second-hand smoke
S0220	Carcinoid Tumor: Typical	Stage IA	Y	N	0.207	85	95	0	1	4	0.465	1	4	.04	1	No - Quit Smoking	8		None	None
S0223	Adenocarcinoma: BAC features	Stage IA	Y	N	0.103	40	70	0		4	0.407	1	4	0.248	2	Never Smoked			None	None
S0224	Adenocarcinoma	Stage IA	Y	N	0.369	85	70	0	1	4	0.505	1	4	.0145	1	Yes - Current Smoker	20		None	None
S0226	Squamous Cell Carcinoma	Stage IA	Y	N	0.284	100	50	10	1	4	0.203	1	4	.10	1	No - Quit Smoking	30		None	None
S0227	Adenocarcinoma: BAC features	Stage IIB	Y	N	0.1				1		0.506	3		.08	1	Never Smoked			None	None
S0228	Adenocarcinoma	Stage IIIA	Y	N	0.187	100	50	10	2		0.522	3		.07	1	No - Quit Smoking	63		None	None
S0233	Adenocarcinoma: BAC features	Stage IA	Y	N	0.276	25	70	0	2		0.481	2		0.470	1	Yes - Current Smoker	40		None	None
S0234	Adenocarcinoma	Stage IA	Y	N	0.264	90	70	0	2		0.890	3		.07	1	No - Quit Smoking	23		None	None
S0235	Adenocarcinoma: BAC features	Stage IIB	Y	N	0.091						0.500	2		.15	1	No - Quit Smoking	50		None	None
S0236	Adenocarcinoma: Mucinous Features	Stage IIB	Y	N	1.867	40	60	0	3		0.399	2		.21	1	No - Quit Smoking	49		Second-hand smoke	Second-hand smoke
S0237	Adenocarcinoma	Stage IB	Y	N	1.398	50	40	20	4		0.345	2		.23	1	Yes - Current Smoker	25		None	None
S0239	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.833	10	80	30	3		2.699	8		0.361		No - Quit Smoking	38		None	None
V0001	Squamous Cell Carcinoma	Stage IB	Y	N	0.59	100	60	20	2	7	0.890	2	4	0.760	2	Yes - Current Smoker	75		None	None
V0002	Adenocarcinoma	Stage IIA	Y	N	0.53	100	70	2	3	8	0.400	3	4	0.370	2	No - Quit Smoking	70	AF	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
V0004	Adenocarcinoma	Stage	Y	N	0.47	20	70	0	1	3	1.570	1		0.310	2	Never Smoked		AR	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
V0006	Neuroendocrine Carcinoma: Large Cell	Stage IB	Y	N	2.56	100	80	25	6	7	0.670	4	4	0.370	1	No - Quit Smoking	30	NV	Agent Orange, Asbestos , Nuclear weapons , Second-hand smoke	Agent Orange, Asbestos , Nuclear weapons , Second-hand smoke
V0007	Adenocarcinoma	Stage IV	Y	Y	0.22	100	80	0		7	0.200	2	4			No - Quit Smoking	60		None	None

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V0009	Bronchioalveolar Carcinoma	Stage IA	Y	N	1.35	70	50	0	5	8	0.800	3	4	0.430	2	Never Smoked		AF	Agent Orange, Jet fuel, Second-hand smoke	Agent Orange, Jet fuel, Second-hand smoke
V0010	Squamous Cell Carcinoma	Stage IIA	Y	N	0.64	95	70	5	3	8	1.060	4	4	0.230	2	Yes - Current Smoker	60		None	None
V0011	Squamous Cell Carcinoma	Stage IB	Y	N	0.49	60	40	20		7	0.200	1	4			No - Quit Smoking	35		None	None
V0012	Squamous Cell Carcinoma	Stage IB	Y	N	0.79	20	40	40		8	0.520	1	4	0.740	2	No - Quit Smoking	80	AR	Agent Orange, Asbestos, Jet fuel, Second-hand smoke	Agent Orange, Asbestos, Jet fuel, Second-hand smoke
V0013	Adenosquamous Carcinoma	Stage IIIA	Y	Y	0.64	70	75	5	2	7	0.680	3	4	0.220	2	Yes - Current Smoker	66		None	None
V0014	Squamous Cell Carcinoma		Y	N	0.43	100	80	15	2	6	0.670	2	4			Yes - Current Smoker	60		None	None
V0015	Adenocarcinoma	Stage IA	Y	N	0.24	60	70	0	1	6	0.220	1	4	0.260	3	No - Quit Smoking	40	AR	Agent Orange, Second-hand smoke	Agent Orange, Second-hand smoke
V0017	Adenocarcinoma	Stage IB	Y	N	0.88	50	70	5	2	6	0.390	2	4	0.270	2	Never Smoked		AR	Burn pits, Nuclear weapons, Nuclear-powered engines, Second-hand smoke	Burn pits, Nuclear weapons, Nuclear-powered engines, Second-hand smoke
V0020	Squamous Cell Carcinoma	Stage	Y	N	0.74	70	80	5	5	3	2.350	5		0.190	3	No - Quit Smoking	30		None	None
V0021	Squamous Cell Carcinoma	Stage IA	Y	N	0.14	40	70	5	1	3	0.420	2		0.180	2	Yes - Current Smoker	102		None	None
V0022	Adenosquamous Carcinoma	Stage IA	N	N												No - Quit Smoking			None	None
V0023	Adenocarcinoma	Stage IB	Y	N	0.44	60	60	0	1	3	0.138	1	4	0.139	2	No - Quit Smoking	45		None	None
V0024	Adenocarcinoma	Stage IIB	Y	N	0.76	100	90	50	1	3	0.740	2		0.200	2	Yes - Current Smoker	114		None	None
V0025	Adenocarcinoma	Stage IA	Y	N	0.357	60	60	5	3	3	1.480	3	4	0.150	3	No - Quit Smoking	66	AR	Agent Orange, Second-hand smoke	Agent Orange, Second-hand smoke

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
V0026	Adenocarcinoma	Stage IA	Y	N	0.22	85	60	0	1	3	0.730	2	4	0.670	2	No - Quit Smoking	98	NV	Asbestos , Jet fuel, Nuclear weapons , Nuclear-powered engines, Second-hand smoke	Asbestos , Jet fuel, Nuclear weapons, Nuclear-powered engines, Second-hand smoke
V0027	Adenocarcinoma	Stage IIA	Y	N	0.75	70	80	2	3	3	0.630	2	4	0.160	2	No - Quit Smoking	52		None	None
V0029	Squamous Cell Carcinoma	Stage IIB	Y	N	0.6	90	70	0	4	3	0.330	3				No - Quit Smoking	10		None	None
V0031	Squamous Cell Carcinoma	Stage IIA	Y	N	0.82	85	80	40	2	2	1.120	2	4	0.117	2	No - Quit Smoking	40		None	None
V0035	Squamous Cell Carcinoma	Stage IIB	Y	N	0.77	30	60	50	2	3	0.710	3		0.530	1	No - Quit Smoking	30		None	None
V0037	Adenocarcinoma	Stage IIIA	Y	Y	0.32				2		0.464	2		0.330	2	No - Quit Smoking			None	None
V0039	Adenocarcinoma	Stage IIIA	Y	N	0.61	70	70	10	3	3	0.690	5		0.480	3	No - Quit Smoking	60	AR	None	None
V0040	Squamous Cell Carcinoma	Stage IA	Y	N	0.17						1.010	2		0.145	2	Yes - Current Smoker			None	None
V0041	Adenocarcinoma	Stage IIB	Y	N	0.4	60	50	0	1	3	0.570	2		0.075	2	Yes - Current Smoker	46		None	None
V0042	Adenocarcinoma	Stage IA	Y	N	0.3	85	70	0	1	3	0.250	2	4	0.081	2	No - Quit Smoking	112		None	None
V0043	Adenocarcinoma	Stage IA	Y	N	0.2	30	40	0	1		1.370	2	6			No - Quit Smoking	76		None	None
V0044	Adenocarcinoma	Stage IIIA	Y	Y	0.6	30	40	0	1	4	0.330	2		0.128	2	No - Quit Smoking			None	None
V0045	Adenocarcinoma	Stage IIIA	Y	N	0.21	25	20	0	1		2.800	5	3	0.450	3	Yes - Current Smoker			None	None
V0050	Carcinoid Tumor: Typical	Stage IA	Y	N	0.15	90	99	0	2	3	0.420	4		0.150	1	No - Quit Smoking		AR	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
V0055	Squamous Cell Carcinoma	Stage IB	Y	N	0.86	100	75	5	3	3	1.12	3	4	.466	1	No - Quit Smoking	111	AR	Asbestos , Nuclear weapons , Second-hand smoke	Asbestos , Nuclear weapons, Second-hand smoke
V0056	Squamous Cell Carcinoma	Stage IIA	Y	N	0.67	90	80	10	5	3	1.81	6	4	.072	1	No - Quit Smoking	100		None	None
V0057	Adenocarcinoma	Stage IA	Y	N	0.46	40	70	5	1	3	1.19	3		.316	1	No - Quit Smoking		AF	Agent Orange, Depleted Uranium, Jet fuel, Nuclear weapons , Second-hand smoke	Agent Orange, Depleted Uranium, Jet fuel, Nuclear weapons, Second-hand smoke

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
V0058	Squamous Cell Carcinoma	Stage IB	Y	N	0.79	40	60	15	3	3	.59	4		.33	1	Yes - Current Smoker	22		None	None
V0059	Squamous Cell Carcinoma		Y	N	0.28	70	15	0	2		.28	3	3			No - Quit Smoking	20		None	None
V0061	Squamous Cell Carcinoma	Stage IA	Y	N	0.54	40	30	10	2	3	0.97	4		0.29	3	No - Quit Smoking	45		None	None
V0064	Squamous Cell Carcinoma	Stage IB	Y	N	0.68	30	80	5	2	3	0.57	3		.08	1	Yes - Current Smoker	35	AR	Burn pits, Second-hand smoke	Burn pits, Second-hand smoke
V0065	Adenocarcinoma	Stage IB	Y	N	0.61	60	20	0	3	4	0.82	2	4	.053	1	No - Quit Smoking	40		None	None
V0066	Adenocarcinoma	Stage IIA	Y	N	0.66	100	40	0	4	3	1.09	4	4	0.23	1	No - Quit Smoking	2	NV	Asbestos	Asbestos
V0069	Carcinoid Tumor: Atypical	Stage IB	Y	N	0.18	80	80	0	4	6	.98	2		.06		Never Smoked			None	None
V0070	Squamous Cell Carcinoma	Stage IB	Y	N	0.71	100	70	40	4	3	0.92	4		0.39		Yes - Current Smoker			None	None
V0071	Adenocarcinoma	Stage IV	Y	N	0.81	70	70	5	3	3	1.08	3		.15	2	No - Quit Smoking	75		None	None
V0071	Adenocarcinoma	Stage IV	Y	N	0.81	30	50	0	3	3	1.08	3		.15	2	No - Quit Smoking	75		None	None
V0072	Adenocarcinoma	Stage IIIA	Y	N	0.88	90	80	0	6	3	.90	6		.19	2	Yes - Current Smoker	62		None	None
V0072	Adenocarcinoma	Stage IIIA	Y	N	0.88	90	80	0	6	3	.90	6		.19	2	Yes - Current Smoker	62		None	None
V0076	Bronchioalveolar Carcinoma	Stage IA	Y	N	1.66	30	80	0	4	3	2.29	4		.85	6	No - Quit Smoking			None	None
V0077	Squamous Cell Carcinoma	Stage IIB	Y	N	1.24	60	50	30	2	4	1.55	3	3	.59	2	No - Quit Smoking	100		None	None
V0078	Adenoid Cystic Carcinoma	Stage IIB	Y	N	0.8	80	95	0	3	5	.26	2	4	.08	1	No - Quit Smoking	4		None	None
V0079	Adenocarcinoma	Stage IIIA	Y	N	0.63	50	40	0	3	8	1.69	4	8	.54	2	Never Smoked			None	None
V0080	Adenocarcinoma	Stage IIA	Y	N	0.88	90	90	40	3	8	1.17	3	4	.54	2	Yes - Current Smoker	60		None	None
V0081	Carcinoid Tumor: Typical	Stage IIA	Y	N	0.09	90	80	0	1	4	.64	1	4	.18	1	No - Quit Smoking	54	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
V0083	Squamous Cell Carcinoma	Stage IA	Y	N	0.5	25	70	5		3	.39	1	3			No - Quit Smoking			None	None
V0088	Squamous Cell Carcinoma	Stage IIB	Y	N	1.16	90	70	20	4	3	1.88	4	3	.27	2	No - Quit Smoking	50	MR	Depleted Uranium, Nuclear weapons, Second-hand smoke	Depleted Uranium, Nuclear weapons, Second-hand smoke
V0089	Adenocarcinoma	Stage IIB	Y	N	0.8	90	50	30	3	4	.30	3	4			No - Quit Smoking	43		None	None
V0090	Adenocarcinoma	Stage IB	Y	N	1.12	50	70	0	2	4	.73	3	4	.79	2	No - Quit Smoking	60		None	None

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V0091	Adenocarcinoma	Stage IIIA	Y	N	0.57	30	15	0	1		.85	3	8	.19	2	Never Smoked			None	None
V0093	Squamous Cell Carcinoma	Stage IA	Y	N	1.6	90	90	10	5	4	1.40	5	4	.136	1	Yes - Current Smoker	45		None	None
V0094	Bronchioalveolar Carcinoma	Stage IIB	Y	N	0.17	75	80	0	1	4	.21	1	4	.16	1	No - Quit Smoking	45	MR	Burn pits, Second-hand smoke	Burn pits, Second-hand smoke
V0095	Undifferentiated Carcinoma: Large Cell	Stage IA	Y	N	0.47	85	70	5	2	5	1.68	2	4	.11	1	No - Quit Smoking	50		Asbestos	Asbestos
V0096	Squamous Cell Carcinoma	Stage IIA	Y	N	0.29	100	60	20	1	4	.89	3	4	.44	2	Yes - Current Smoker	88	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
V0097	Squamous Cell Carcinoma	Stage IB	Y	N	1.8	80	75	25	5	3	1.71	5	3	.38	2	No - Quit Smoking	60		None	None
V0098	Squamous Cell Carcinoma	Stage IB	Y	N	0.8	60	50	25	3	4	1.84	3	4	.17	1	Yes - Current Smoker	52		None	None
V0099	Carcinoid Tumor: Typical	Stage IA	Y	N	0.14	90	90	0	1	8	.85	4	9	.08	1	Yes - Current Smoker	69		None	None
V0100	Adenocarcinoma	Stage IIIA	Y	N	0.4	70	70	10	1	12	1.20	1	8	.46	1	Never Smoked			None	None
V0101	Squamous Cell Carcinoma	Stage IA	Y	N	0.57	50	50	0	1	4	.37	1	4			No - Quit Smoking	50		None	None
V0103	Adenosquamous Carcinoma	Stage IA	Y	N	0.07	50	80	25		4	.28	1	4			No - Quit Smoking	60	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
V0105	Adenocarcinoma	Stage IA	Y	N	0.27	100	80	0		8	.38		8	.30	2	Never Smoked			None	None
V0106	Adenocarcinoma	Stage IB	Y	N	0.76	20	60	0	1	8	.32	3	8			No - Quit Smoking	30		None	None
V0107	Carcinoid Tumor: Typical	Stage IB	Y	N	0.21	100	70	0	1	4	.81	1	4	.37	1	No - Quit Smoking	25		None	None
V0108	Adenosquamous Carcinoma	Stage IIIA	Y	N	1.27	100	80	0	6	8	.89	7	8	.058	1	No - Quit Smoking	2		None	None
V0110	Mucinous Cystic Neoplasm	Stage IA	Y	N	0.92	70	30	0	3	8	1.93	5	8			Never Smoked			None	None
V0111	Adenocarcinoma	Stage IB	Y	N	0.44	85	50	0	2	8	.47	4	8	.20	2	No - Quit Smoking	60		None	None
V0112	Adenocarcinoma	Stage IA	Y	Y	0.18	70	50	0	1	8	.58	4	8	.62	3	Yes - Current Smoker	4		None	None
V0113	Carcinoid Tumor: Typical	Stage IA	Y	N	0.24	50	85	0	2		.48	5	8			No - Quit Smoking	2		None	None
V0114	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.39	90	70	15	5	8	.89	7	8	.30	1	No - Quit Smoking	40		None	None
V0115	Adenosquamous Carcinoma	Stage IA	Y	N	0.56	90	85	0	3	8	.26	4	8			No - Quit Smoking	50	AR	Burn pits, Second-hand smoke	Burn pits, Second-hand smoke
V0116	Adenocarcinoma	Stage IIA	Y	N	0.85	60	60	5	2	8	1.58	4	8	.54	1	No - Quit Smoking	70		None	None

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V0117	Carcinoid Tumor: Typical	Stage IB	Y	N	1.56	100	95	0	4	9	1.73	4	8	1.07	3	No - Quit Smoking	15	NV	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
V0118	Squamous Cell Carcinoma	Stage IIIA	Y	N	3.86	100	40	5	8	8	3.85	8	8	.26	1	Yes - Current Smoker	104		None	None
V0119	Adenocarcinoma	Stage IIA	Y	N	1.01	80	70	0	5	8	1.09	7	8	.20	2	No - Quit Smoking	30	MR	Second-hand smoke, Toxic waste sites	Second-hand smoke, Toxic waste sites
V0120	Adenocarcinoma	Stage IV	Y	Y	1.27	50	80	50	3	8	.79	4	8	.41	2	Yes - Current Smoker	40		None	None
V0121	Adenocarcinoma	Stage IIA	Y	N	1.0	80	60	0	5	8	2.25	7	8	.27	1	No - Quit Smoking	80	AF	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
V0121	Adenocarcinoma	Stage IIA	Y	N	1.0	90	60	5	5	8	2.25	7	8	.27	1	No - Quit Smoking	80	AF	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
V0124	Adenocarcinoma	Stage IIIA	Y	N	1.19	90	60	5	4	8	1.39	3	8	.18	1	No - Quit Smoking	15		None	None
V0125	Adenocarcinoma	Stage IA	Y	N	0.15	60	50	0	2	8	1.11	6	8	.38	1	No - Quit Smoking	42		None	None
V0125	Adenocarcinoma: BAC features	Stage IA	Y	N	0.15	85	70	0	2	8	1.11	6	8	.38	1	No - Quit Smoking	42		None	None
V0126	Adenocarcinoma	Stage IA	Y	N	0.49	15	60	0	1	8	1.80	2	9	.45	1	Yes - Current Smoker	50		None	None
V0128	Adenocarcinoma	Stage IA	Y	N	0.77	10	50	0		8	1.04	3	8	.05		No - Quit Smoking	40		None	None
V0130	Adenocarcinoma	Stage IIB	Y	N	0.89	60	60	0	2	8	.80	3	8	.40		No - Quit Smoking	15		None	None
V0131	Adenocarcinoma: BAC features	Stage IB	Y	N	0.7	40	40	0	2	4	1.04	2	4	.39	2	Yes - Current Smoker	75	AR	Second-hand smoke	Second-hand smoke
V0132	Adenocarcinoma	Stage IA	Y	N	0.36	90	70	0	1	4	.91	4	4	.16	1	No - Quit Smoking	15		None	None
V0133	Adenosquamous Carcinoma	Stage IA	Y	N	0.12	100	95	5	2		.40	2				Yes - Current Smoker	75		None	None
V0135	Squamous Cell Carcinoma	Stage IB	Y	N	1.42	90	70	10	5	4	1.40	6	4	1.52	3	No - Quit Smoking	64	AR	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
V0138	Adenosquamous Carcinoma	Stage IIA	Y	N	0.98	25	80	5	2	4	1.43	4	4	.35	2	No - Quit Smoking	22		None	None
V0139	Adenosquamous Carcinoma	Stage IIIA	Y	N	0.314	1	80	0	1		1.94	3		.125	1	No - Quit Smoking	1		None	None
V0141	Adenocarcinoma	Stage IIA	Y	N	1.32	50	50	0	2	4	.73	3	4	.67	2	No - Quit Smoking	40		None	None

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V0142	Adenocarcinoma: BAC features	Stage IIB	Y	N	1.73	100	70	0	5	4	1.49	5	4	.20	1	No - Quit Smoking	50	AR	Agent Orange, Burn pits, Jet fuel, Second-hand smoke	Agent Orange, Burn pits, Jet fuel, Second-hand smoke
V0143	Adenocarcinoma	Stage IIB	Y	N	0.71	90	70	10	2	4	.4	2	4	.09	1	No - Quit Smoking	25		None	None
V0144	Squamous Cell Carcinoma	Stage IA	Y	N	0.055	60	70	0	1		.28	1				No - Quit Smoking	25		None	None
V0145	Adenocarcinoma: BAC features	Stage IA	Y	N	0.36	1	40	0	1		.25	1	4	.32	1	No - Quit Smoking	60		None	None
V0146	Carcinoid Tumor: Typical	Stage IA	Y	N	0.47	100	99	0	3	4	.95	3	4	.51	2	No - Quit Smoking	40		None	None
V0148	Adenocarcinoma: BAC features	Stage IA	Y	N	0.52	90	60	0	5	4	.48	6	4			Yes - Current Smoker	83		None	None
V0148	Adenocarcinoma: BAC features	Stage IA	Y	N	0.52	50	50	0	5	4	.48	6	4			Yes - Current Smoker	83		None	None
V0148	Adenocarcinoma: BAC features	Stage IA	Y	N	0.52	60	60	0	5	4	.48	6	4			Yes - Current Smoker	83		None	None
V0149	Squamous Cell Carcinoma	Stage IA	Y	N	0.22	70	70	25	1		.15	1				Yes - Current Smoker	30		None	None
V0150	Carcinoid Tumor: Typical	Stage IA	Y	N	0.18	95	99	0	1		.98	3	4			Yes - Current Smoker	60		None	None
V0151	Squamous Cell Carcinoma	Stage IIA	Y	Y	0.33	1			1		1.6	3	4	.28	1	Yes - Current Smoker	90		None	None
V0152	Bronchioalveolar Carcinoma	Stage IA	Y	Y	0.29	50	60	0		4	.75	1	4	.07	1	No - Quit Smoking	15		None	None
V0153	Carcinoid Tumor: Typical	Stage IA	Y	N	0.018	5			1					.025	1	No - Quit Smoking	18	MR	Second-hand smoke	Second-hand smoke
V0155	Adenocarcinoma	Stage IB	Y	N	0.26	60	70	0	1	4	.28	1	4	.20	1	No - Quit Smoking	42		None	None
V0156	Adenocarcinoma	Stage IIA	Y	N	1.44	40	90	0	3	4	1.82	3	4	.78	2	No - Quit Smoking	15	AR	Second-hand smoke	Second-hand smoke
V0158	Adenocarcinoma	Stage IA	Y	N	0.15	85	75	0		4	.50	2	4	.07	1	Yes - Current Smoker	120		None	None
V0164	Adenocarcinoma	Stage IIA	Y	N	0.45	100	85	0	3	4	1.02	4	4			Never Smoked			None	None
V0165	Undifferentiated Carcinoma: Large Cell	Stage IV	Y	N	1.29	100	90	33	9	4	1.42	11	4	.21	2	No - Quit Smoking	23		None	None
V0165	Undifferentiated Carcinoma: Large Cell	Stage IV	Y	N	1.29	60	75	5	9	4	1.42	11	4	.21	2	No - Quit Smoking	23		None	None
V0166	Squamous Cell Carcinoma	Stage IIA	Y	N	0.98	50	80	0	2	4	.98	2	4	.24	2	Yes - Current Smoker	60		None	None
V0167	Adenocarcinoma	Stage IA	Y	N	0.072	98	70	0	1		.75	1		.076	1	Yes - Current Smoker	40		None	None

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V0168	Adenocarcinoma	Stage IA	Y	N	0.39	100	85	0	3	4	.43	3	4	.25	2	No - Quit Smoking	40		None	None
V0169	Adenocarcinoma	Stage IA	Y	N	0.2	75	80	0	1		.09	1				No - Quit Smoking	53		None	None
V0171	Squamous Cell Carcinoma	Stage IIA	Y	N	0.62	50	85	5	1	4	1.14	2	4	1.01	2	No - Quit Smoking	45	NV	Agent Orange, Asbestos, Nuclear-powered engines, Second-hand smoke	Agent Orange, Asbestos, Nuclear-powered engines, Second-hand smoke
V0173	Adenocarcinoma	Stage IA	Y	N	0.03	100	80	0	1		.075	1				Yes - Current Smoker	6		None	None
V0176	Squamous Cell Carcinoma	Stage IIA	N	N												No - Quit Smoking	104		None	None
V0178	Adenocarcinoma	Stage IIA	Y	Y	1.08	100	95	5	7	4	.87	6	4	.196	1	No - Quit Smoking	15		None	None
V0179	Adenocarcinoma	Stage IA	Y	N	0.73	50	50	0	1	4	1.43	4	4	.08	1	No - Quit Smoking	8		None	None
V0180	Bronchioalveolar Carcinoma	Stage IA	Y	N	0.085	100	90	0			1.46	3		.29	2	Yes - Current Smoker	55		None	None
V0181	Small Cell Carcinoma	Stage IB	Y	N	1.28	100	60	5	7	5	1.51	7	4	.60	2	No - Quit Smoking	75	AR	Second-hand smoke	Second-hand smoke
V0182	Squamous Cell Carcinoma	Stage IIA	Y	N	1.24	100	80	0	7	4	1.96	7	4	.23	2	No - Quit Smoking	100		None	None
V0185	Squamous Cell Carcinoma	Stage IA	Y	N	0.24	50	75	20	1	4	1.68	1	4	.25	1	No - Quit Smoking	68		None	None
V0189	Carcinoid Tumor: Typical	Stage IA	Y	N	0.42	100	98	0	2	4	1.10	2	4	.087	1	Never Smoked			Second-hand smoke	Second-hand smoke
V0190	Squamous Cell Carcinoma	Stage IIB	Y	N	0.76	90	95	0	3	4	1.08	3	4			No - Quit Smoking	60	AR	Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
V0191	Squamous Cell Carcinoma	Stage IA	Y	N	0.13	100	90	30	1		.63	2		.167	1	Yes - Current Smoker	55		None	None
V0194	Adenocarcinoma	Stage IIA	Y	Y	1.71	1	90	85	4		1.76	4		.15	1	No - Quit Smoking	40		None	None
V0195	Adenocarcinoma	Stage IB	Y	N	0.8	90	80	0	2	4	.75	3	4	.80	3	No - Quit Smoking	40		None	None
V0197	Squamous Cell Carcinoma	Stage IA	Y	N	0.75	100	70	2	2	4	1.55	3	4	.69	2	No - Quit Smoking	60		None	None
V0198	Adenocarcinoma	Stage IIA	Y	N	0.41	95	80	0	2	4	1.35	2	4	.098	1	No - Quit Smoking	38		None	None
V0201	Adenocarcinoma	Stage IIIA	Y	N	0.21	45	75	0	1		.63	1				No - Quit Smoking	38		Jet fuel, Second-hand smoke	Jet fuel, Second-hand smoke
V0203	Adenocarcinoma: BAC features	Stage IA	Y	N	0.61	90	85	0	4	4	.59	4	4	.43	2	Never Smoked			None	None
V0204	Adenocarcinoma	Stage IIIA	Y	N	0.02	20	50	0			.27	1				Yes - Current Smoker	75	AF	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke

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V0206	Adenocarcinoma	Stage IA	Y	N	0.08	90	90	0	1		.97	1		.057	1	No - Quit Smoking	72		None	None
V0208	Adenocarcinoma	Stage IA	Y	N	0.11	95	40	0	1		1.41	1		.36	1	Yes - Current Smoker	80		None	None
V0209	Adenocarcinoma	Stage IB	Y	N	1.02	95	85	0	4	4	1.34	4	4	.41	1	No - Quit Smoking	11		None	None
V0210	Squamous Cell Carcinoma	Stage IIIA	Y	N	2.96	100	20	40	7	4	3.29	7	4	.26	1	No - Quit Smoking	20	NV	Agent Orange, Asbestos, Jet fuel, Second-hand smoke	Agent Orange, Asbestos, Jet fuel, Second-hand smoke
V0213	Squamous Cell Carcinoma	Stage IB	Y	N	0.3	100	98	0	1	4	.74	1	4	.172	1	Yes - Current Smoker	40		None	None
V0214	Adenocarcinoma	Stage IA	Y	N	0.85	15	90	0	1		.35	1		.098	1	Yes - Current Smoker	34		None	None
V0215	Carcinoid Tumor: Typical	Stage IA	Y	N	0.39	100	90	0	1	4	.23	1	4	.165	1	No - Quit Smoking	8		None	None
V0216	Adenocarcinoma	Stage IB	Y	N	0.71	90	50	0	3	4	.76	3	4	.078	1	Never Smoked			None	None
V0218	Adenocarcinoma: BAC features	Stage IA	Y	N	0.38	40	80	0	1		1.20	2		.12	1	No - Quit Smoking	35		None	None
V0220	Adenocarcinoma	Stage IA	Y	N	1.01	45	80	0	2	4	2.25	5	4	.22	1	No - Quit Smoking	60		None	None
V0221	Adenocarcinoma: BAC features	Stage IA	Y	N	0.99	80	90	0	2	4	.95	5	4			No - Quit Smoking	60		None	None
V0224	Adenocarcinoma	Stage IA	Y	N	0.86	75	60	0	1	4	.22					No - Quit Smoking	80		None	None
V0225	Squamous Cell Carcinoma	Stage IA	Y	N	0.75	33	70	0	1		2.97	6		1.18	2	No - Quit Smoking	40		None	None
V0226	Undifferentiated Carcinoma: Large Cell	Stage IB	Y	N	1.01	100	95	60	4	4	.91	4	4	.43	2	No - Quit Smoking	38		None	None
V0229	Squamous Cell Carcinoma	Stage IB	Y	N	1.4	100	80	5	7	4	.80	3	4	.10		No - Quit Smoking	50	NV	Agent Orange, Asbestos, Jet fuel, Second-hand smoke	Agent Orange, Asbestos, Jet fuel, Second-hand smoke
V0231	Adenocarcinoma	Stage IIA	Y	N	0.35	33	70	0			.25	1		.31		Yes - Current Smoker	28		None	None
V0232	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.8	75	50	5	5		1.3	5		.33		Yes - Current Smoker	60		None	None
V0233	Squamous Cell Carcinoma	Stage IA	Y	N	0.32	90	50	5	1	4	.70	2	4	.17		Yes - Current Smoker	10		None	None
V0234	Adenocarcinoma	Stage IA	Y	Y	0.65	90	90	5	2	4	.48	2	4			Never Smoked			None	None
V0235	Adenocarcinoma: BAC features	Stage IA	Y	N	1.24	25	85	0	1		.49	2		.12	1	No - Quit Smoking	23		None	None
V0236	Squamous Cell Carcinoma	Stage IA	Y	N	0.62	100	60	10	3	4	.52	2	4	.35	1	Yes - Current Smoker	106		None	None

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V0237	Squamous Cell Carcinoma	Stage IIB	Y	N	2.0	75	70	10	9	4	1.73	9	4	.06	1	No - Quit Smoking	33		None	None
V0240	Bronchioalveolar Carcinoma	Stage IA	Y	N	0.13	40	95	0	1		.56	3		.23	2	No - Quit Smoking	4		None	None
V0241	Adenocarcinoma	Stage IIB	Y	N	0.68	5	95	0	1		.33	1				No - Quit Smoking	80	AR	Second-hand smoke	Second-hand smoke
V0242	Squamous Cell Carcinoma	Stage IA	Y	N	0.06	100	70	20	1		.16	1				No - Quit Smoking	51	MR	Second-hand smoke	Second-hand smoke
V0245	Adenocarcinoma	Stage IIB	Y	N	0.08	75	50	0	1		.25	1				No - Quit Smoking	57		None	None
V0247	Adenocarcinoma	Stage IIIA	Y	N	0.15	100	80	0	1		.48	1		.11	1	No - Quit Smoking	10		None	None
V0248	Adenocarcinoma	Stage IA	Y	N	1.43	95	80	0	5	4	.93	5	4	.11	1	Never Smoked			None	None
V0249	Adenocarcinoma: Mucinous Features	Stage IIA	Y	N	0.56	99	85	0	2	4	1.17	3	4	.25	1	No - Quit Smoking	25		None	None
V0251	Adenocarcinoma	Stage IA	Y	N	0.08	75	50	0	1		.31	1				No - Quit Smoking	94		None	None
V0252	Squamous Cell Carcinoma	Stage IA	Y	N	0.83	20	50	10	1		.32	1		.13	1	No - Quit Smoking	30		None	None
V0253	Squamous Cell Carcinoma	Stage IA	Y	N	0.12	100	80	5	1		1.30	3		1.38	1	No - Quit Smoking	66		None	None
V0256	Adenocarcinoma	Stage IIA	Y	N	1.8	100	60	0	5	4	1.22	4	4	.219	1	Never Smoked			None	None
V0257	Adenocarcinoma	Stage IIA	Y	N	0.69	100	85	0	2	4	.68	2	4	.187	1	No - Quit Smoking	68		None	None
V0259	Adenocarcinoma	Stage IIIA	Y	N	1.39	85	30	5	4	4	1.17	6	4	.54	2	No - Quit Smoking	25		None	None
V0266	Squamous Cell Carcinoma	Stage IIB	Y	N	1.13	85	80	5	6		.52	4				No - Quit Smoking	70		None	None
V0269	Squamous Cell Carcinoma	Stage IIIA	Y	Y	0.077	1	90	0	1		.50	2		.40	1	No - Quit Smoking	50		None	None
V0273	Squamous Cell Carcinoma	Stage IIIB	Y	N	0.82	40	85	15	3		1.26	4		.30	2	No - Quit Smoking	20		None	None
V0274	Squamous Cell Carcinoma	Stage IA	Y	N	0.15	20	30	10	2		.39	3				No - Quit Smoking	90	AR	Second-hand smoke	Second-hand smoke
V0275	Squamous Cell Carcinoma	Stage IIA	Y	N	0.77	100	80	2	5		1.88	5		.15	1	No - Quit Smoking	45		None	None
V0276	Adenocarcinoma: BAC features	Stage IB	Y	N	1.3	90	70	0	7		0.88	6		0.31	2	Never Smoked			None	None
V0279	Adenocarcinoma	Stage IIB	Y	N	0.29	95	60	0	3		1.32	4		.48	2	Yes - Current Smoker	40		None	None
V0282	Squamous Cell Carcinoma	Stage IA	Y	N	0.4	30	40	0	1		.16	1				Yes - Current Smoker	110		None	None
V0284	Adenocarcinoma	Stage IA	Y	N	0.57	50	60	0	3		1.06	5		.20		Never Smoked			None	None
V0287	Adenocarcinoma	Stage IA	Y	N	0.14	85	60	5	2		1.51	5		.45	2	No - Quit Smoking	60	AR	Second-hand smoke	Second-hand smoke
V0289	Squamous Cell Carcinoma	Stage IA	Y	N	0.22	90	50	0	2		1.35	6		.17	2	Yes - Current Smoker	75		None	None
V0290	Adenocarcinoma: BAC features	Stage IA	Y	N	0.07	85	70	0	1		.10	1				No - Quit Smoking	13		None	None

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V0291	Adenocarcinoma: BAC features	Stage IA	Y	N	0.32	35	40	0	2		1.07	4		.28	1	No - Quit Smoking	65		None	None
V0292	Adenocarcinoma	Stage IA	Y	N	0.09	60	70	0	1		.78	3		.11	1	Yes - Current Smoker	15		Second-hand smoke	Second-hand smoke
V0293	Adenocarcinoma: BAC features	Stage IA	Y	N	0.37	95	70	0	3		.37	3				No - Quit Smoking	50		None	None
V0295	Adenocarcinoma	Stage IA	N	N							1.26	4		.11	1	No - Quit Smoking	50		None	None
V0297	Adenocarcinoma: BAC features	Stage IIA	Y	N	0.92	90	50	0	4		.87	4		.42	2	Never Smoked			None	None
V0299	Adenocarcinoma: BAC features	Stage IA	Y	N	0.32	80	40	0	3		.53	3				No - Quit Smoking	3		None	None
V0302	Carcinoid Tumor: Typical	Stage IA	Y	N	0.2	60	95	0	2		.99	2		.24	1	No - Quit Smoking	6	NV	Nuclear-powered engines	Nuclear-powered engines
V0304	Carcinoid Tumor: Typical	Stage IA	Y	N	0.33	70	95	0	3		.60	3		.083	1	Never Smoked			None	None
V0311	Adenocarcinoma	Stage IA	Y	N	0.73	40	40	5	3		.94	3		.13	1	Yes - Current Smoker	40		None	None
V0314	Adenocarcinoma	Stage IIIA	Y	N	0.66	85	70	10	4		.20	3		.06	1	Yes - Current Smoker	39		None	None
V0317	Squamous Cell Carcinoma	Stage IB	Y	N	0.61	95	70	0	4		1.51	5		.62	2	No - Quit Smoking	70		None	None
W0001	Squamous Cell Carcinoma	Stage IB	Y	N	0.98	40	80	5	1	2	1.710	2		0.250	2	Yes - Current Smoker			None	None
W0002	Bronchioalveolar Carcinoma	Stage IA	Y	N	0.24	80	50	0	1	3	0.370	1	4	0.050	2	No - Quit Smoking	35		None	None
W0004	Adenocarcinoma	Stage IB	Y	N	1.25	95	60	10	9	2	0.630	1		0.830	3	No - Quit Smoking	45	AR	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
W0007	Adenocarcinoma	Stage IA	Y	N	0.14	60	70	5	2	3	0.530	2		0.370	2	Yes - Current Smoker			None	None
W0008	Small Cell Carcinoma	Stage IIIA	Y	N	0.2	85	90	30	2	7	0.370	1	8	0.090	2	Yes - Current Smoker			None	None
W0010	Carcinoid Tumor: Typical	Stage IA	Y	N	0.16	100	95	0	3	3	0.090	4		0.030	1	Never Smoked			None	None
W0011	Neuroendocrine Carcinoma: Large Cell	Stage IA	Y	N	0.24	90	90	30	2	3	0.220	3				Yes - Current Smoker			None	None
W0013	Adenocarcinoma	Stage IB	Y	N	0.8	100	70	25	2		1.130	4	3	0.360	3	No - Quit Smoking	44		None	None
W0014	Squamous Cell Carcinoma	Stage IB	Y	N	0.26	100	80	30	2	2	0.230	3				Yes - Current Smoker			None	None
W0015	Adenocarcinoma	Stage IA	Y	N	0.06	100	40	0	2		0.070	2				Yes - Current Smoker			None	None
W0016	Adenocarcinoma	Stage IA	Y	N		100	60	0	1	3	0.100	2		0.050	2	Never Smoked			None	None
W0019	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.8	100	60	0	4	3	0.980	5		0.630		No - Quit Smoking	23		None	None
W0020	Squamous Cell Carcinoma	Stage IIA	Y	N	0.98	80	80	10	4	3	0.710	4	4	0.180	3	No - Quit Smoking	15		None	None

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W0021	Adenocarcinoma	Stage IA	Y	N	0.19	95	90	0	1	3	0.300	1				No - Quit Smoking	60		None	None
W0022	Squamous Cell Carcinoma	Stage IA	Y	N	0.23	100	60	20	2	3	0.460	3				Yes - Current Smoker			None	None
W0023	Squamous Cell Carcinoma	Stage IB	Y	N	0.65	60	50	5	3	3	0.280	4				Yes - Current Smoker			None	None
W0024	Adenocarcinoma	Stage IIIB	Y	N	0.37	60	70	0	1	3	0.420	2	4			No - Quit Smoking	30		None	None
W0025	Adenocarcinoma	Stage IA	Y	N	0.15	90	50	20	1	3	0.100	1	4			No - Quit Smoking	24		None	None
W0026	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.89	70	70	25	3	3	0.680	4		0.250	3	Yes - Current Smoker	36		None	None
W0028	Squamous Cell Carcinoma		Y	N	0.11	100	40	50	1	3	0.250	2	4			No - Quit Smoking	90		None	None
W0029	Neuroendocrine Carcinoma: Large Cell	Stage IA	Y	N	0.35	100	85	40	2	3	1.240	3	4	0.250	2	No - Quit Smoking			None	None
W0030	Adenocarcinoma	Stage IIA	Y	N		100	30	30	4	3		1	4	0.156	2	No - Quit Smoking	35	AF	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
W0032	Adenocarcinoma	Stage IA	Y	N	0.45	100	80	0	1	3	0.145	2				No - Quit Smoking	30		None	None
W0033	Adenocarcinoma	Stage IB	Y	N	0.76	100	60	0	4	3	1.180	3	4	0.350	2	No - Quit Smoking	81		None	None
W0036	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.12	60	50	5	2	3	1.300	2		0.500	2	Yes - Current Smoker	96		None	None
W0038	Adenocarcinoma	Stage IIA	Y	N	0.33	60	50	0	2	3	0.080	1	4			No - Quit Smoking	50	MR	None	None
W0039	Squamous Cell Carcinoma	Stage IB	Y	N	0.76	100	70	5	4	3	0.590	3	4	0.210	2	No - Quit Smoking	30		None	None
W0042	Adenocarcinoma	Stage IIB	Y	N	0.31	60	60	0	1	3	0.120	1	4			No - Quit Smoking			None	None
W0043	Adenocarcinoma	Stage IIIA	Y	N	0.34	60	40	0	1	3	0.480	2		0.150	2	No - Quit Smoking	33		None	None
W0044	Adenocarcinoma	Stage IA	Y	N	0.27	60	70	0		3	0.170	2				Yes - Current Smoker	80		None	None
W0045	Adenocarcinoma	Stage IB	Y	N	0.36	85	50	0	2	3	0.550	1	4	0.100	2	No - Quit Smoking	40	MR	None	None
W0046	Adenocarcinoma	Stage IIB	Y	N	0.96	100	30	0	6	3	0.380	4		0.200	2	No - Quit Smoking			None	None
W0047	Squamous Cell Carcinoma	Stage IIA	Y	N	1.31	100	60	5	6	3	1.310	5	4	0.230	2	No - Quit Smoking	120		None	None
W0051	Adenocarcinoma	Stage IA	Y	N	0.22	90	40	0	1	3	0.400	3				Yes - Current Smoker			None	None
W0052	Adenocarcinoma	Stage IB	Y	N	0.08	100	50	0	2		0.056	2				No - Quit Smoking	100		None	None
W0053	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.29	95	70	5	3	3	0.630	2	4			No - Quit Smoking	50		None	None
W0054	Adenocarcinoma	Stage IIA	Y	N	0.026	60	40	5	2		0.067	2		0.017	2	No - Quit Smoking			None	None
W0055	Squamous Cell Carcinoma	Stage IIA	Y	N	0.54	100	70	80	4	3		2		.077	1	Yes - Current Smoker	40		None	None

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W0057	Adenocarcinoma	Stage IIIA	Y	N	0.32	1	2	0	1		.32	2		.25	2	No - Quit Smoking	50		None	None
W0058	Squamous Cell Carcinoma	Stage IV	Y	Y	0.22	95	70	15	2	2	.19	2		.08	1	Yes - Current Smoker	50		None	None
W0060	Adenocarcinoma	Stage IB	Y	N	0.25	60	50	0	2	3	.31	2		.19	1	Never Smoked			None	None
W0062	Adenocarcinoma	Stage IIIA	Y	N	0.14	90	60	0	1	3	.23	1		.11	1	Never Smoked			None	None
W0063	Adenocarcinoma	Stage IA	Y	N		90	25	0	2	3	.22	2	4			No - Quit Smoking			None	None
W0064	Adenocarcinoma	Stage IA	Y	N	0.3	100	30	0	3	3	.09		4			No - Quit Smoking	50	AR	Second-hand smoke	Second-hand smoke
W0066	Adenocarcinoma	Stage IIB	Y	N	0.36	85	40	15	3	3	.49	4		.13	1	No - Quit Smoking			None	None
W0067	Bronchioalveolar Carcinoma	Stage IA	Y	N	0.14	90	70	0		3	.23	1		.08	1	No - Quit Smoking	24		None	None
W0070	Adenocarcinoma	Stage IIB	Y	N	1.03	95	75	0	3	10	.75	3	8			No - Quit Smoking		AR	None	None
W0071	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.56	90	50	5	2	7	.57	3	10	.25	2	No - Quit Smoking	50		None	None
W0072	Adenocarcinoma	Stage IIIA	Y	N	0.2	90	30	0		5	.62	1	5	.29	2	No - Quit Smoking	45		None	None
W0074	Squamous Cell Carcinoma	Stage IIIA	Y	N	1.89	100	25	10		2	.92	1	5	.16	2	No - Quit Smoking	35	AR	Second-hand smoke	Second-hand smoke
W0076	Adenocarcinoma	Stage IV	Y	N	0.32	100	20	0	1	8	.34	1	5			No - Quit Smoking	50		None	None
W0079	Squamous Cell Carcinoma	Stage IA	Y	N	0.28	70	60	2		5		3	4	.15	1	No - Quit Smoking			None	None
W0079	Squamous Cell Carcinoma	Stage IA	Y	N	0.28	70	60	2		5		3	4	.15	1	No - Quit Smoking			None	None
W0080	Adenocarcinoma	Stage IV	Y	N	0.18	20	10	50	1	4	.26	1	4			No - Quit Smoking			None	None
W0080	Adenocarcinoma	Stage IV	Y	N	0.18	20	10	50	1	4	.26	1	4			No - Quit Smoking			None	None
W0081	Adenocarcinoma	Stage IIA	Y	N	0.77	100	70	30	2	4	.58	3	8	.086	1	Yes - Current Smoker	140	NV	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke
W0082	Adenocarcinoma	Stage IB	Y	N	0.18	90	60	2		10	.34		10			No - Quit Smoking	89	AF	Agent Orange, Asbestos , Jet fuel, Second-hand smoke	Agent Orange, Asbestos , Jet fuel, Second-hand smoke
W0082	Adenocarcinoma	Stage IB	Y	N	0.18	90	60	2		10	.34		10			No - Quit Smoking	89	AF	Agent Orange, Asbestos , Jet fuel, Second-hand smoke	Agent Orange, Asbestos , Jet fuel, Second-hand smoke
W0084	Squamous Cell Carcinoma	Stage IA	Y	N	0.21	70	70	20	1	4	.22	1	4			No - Quit Smoking	60	AF	Second-hand smoke	Second-hand smoke

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W0087	Small Cell Carcinoma	Stage IIB	Y	N	0.26	65	85	5	1	5	.84	1	4			No - Quit Smoking	40	MR	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0089	Squamous Cell Carcinoma	Stage IA	Y	N	0.46	20	75	15	2	4	3.07	3	4	.23	1	No - Quit Smoking	40		Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0094	Adenocarcinoma	Stage IA	Y	N	0.36	90	70	2	2	4	.21	5	8		2	Yes - Current Smoker			None	None
W0095	Adenocarcinoma	Stage IA	N	N							1.35	3		.11	1	Yes - Current Smoker			Second-hand smoke	Second-hand smoke
W0096	Squamous Cell Carcinoma	Stage IIA	Y	N	0.49	90	70	20	2	3	.84	3	3	.21	1	Yes - Current Smoker			None	None
W0097	Undifferentiated Carcinoma: Large Cell		Y	N	0.57	100	50	10	3	9	1.18	3	8	.32	1	No - Quit Smoking	94		None	None
W0098	Adenocarcinoma	Stage IA	Y	N	0.26	40	75	2		8	2.26	2	8	.256	1	Yes - Current Smoker		AR	Second-hand smoke	Second-hand smoke
W0100	Adenocarcinoma	Stage IIIA	Y	N	0.25	60	60	2	1	8	1.90	2	8	.335	1	No - Quit Smoking	120		None	None
W0102	Adenocarcinoma	Stage IIIA	Y	N	1.27	60	60	15	2	8	.75	3	8	.17	1	No - Quit Smoking	20	AR	Second-hand smoke	Second-hand smoke
W0103	Adenocarcinoma	Stage IA	Y	N	0.2	60	40	40	1		.53	2	8	.138	1	No - Quit Smoking	60		None	None
W0105	Bronchioalveolar Carcinoma	Stage IIB	Y	N	1.69	95	80	0	6	9	1.08	4	8	.051	1	No - Quit Smoking	25		None	None
W0107	Adenocarcinoma	Stage IB	Y	N	0.52	95	60	0	3	8	.44	3	8	.10	1	Never Smoked			None	None
W0109	Adenocarcinoma	Stage IIB	Y	N	1.2	100	60	15	3	4	.78	3	4	.27	1	No - Quit Smoking	20		None	None
W0111	Adenocarcinoma	Stage IA	Y	N	0.22	60	70	0		4	.90	2	4	.018	1	No - Quit Smoking	34		None	None
W0112	Adenocarcinoma	Stage IB	Y	Y	0.39	90	50	30		4	1.03	2	4	.26	1	No - Quit Smoking	24	AR	Second-hand smoke	Second-hand smoke
W0113	Adenocarcinoma	Stage IIIA	Y	N	0.16	70	80	10	1		.195	1				No - Quit Smoking	30		None	None
W0114	Adenocarcinoma	Stage IIIA	Y	N	0.39	100	80	10	2	4	1.52	2	4			No - Quit Smoking	7	AF	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0115	Squamous Cell Carcinoma	Stage IA	Y	N	0.045	100	85	5	1		.137	1				No - Quit Smoking			None	None
W0116	Adenocarcinoma	Stage IIA	Y	N	0.24	20	40	0	1		.64	2		.15	1	No - Quit Smoking	25		None	None
W0119	Adenocarcinoma	Stage IA	Y	N	0.29	100	10	0	1	4	.75	1	4	.11	1	No - Quit Smoking	60		None	None
W0120	Bronchioalveolar Carcinoma	Stage IA	Y	N	0.09	25	70	0	1		.28	1		.12	1	Never Smoked			None	None
W0122	Undifferentiated Carcinoma: Large Cell	Stage IB	Y	N	0.31	100	80	10	1	4	.61	1	8			Never Smoked		AF	Asbestos , Jet fuel, Second-hand smoke	Asbestos , Jet fuel, Second-hand smoke

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0124	Adenocarcinoma	Stage IB	Y	N	0.09	100	50	0		4	.21		4			Yes - Current Smoker	25		None	None
W0125	Mucoepidermoid Carcinoma	Stage IA	Y	N	0.124	70	40	0	1		.26	1				No - Quit Smoking	15		None	None
W0127	Squamous Cell Carcinoma	Stage IA	Y	N	0.22	40	50	10	1		.14	1				Yes - Current Smoker	43		None	None
W0128	Small Cell Carcinoma	Stage IIA	Y	N	0.55	90	70	15	3	9	.52	3	8	.26	2	Yes - Current Smoker	40	NV	Asbestos , Nuclear weapons , Second-hand smoke	Asbestos , Nuclear weapons , Second-hand smoke
W0129	Undifferentiated Carcinoma: Large Cell	Stage IIA	Y	N	0.32	100	50	40	1		.40	1		.18	1	No - Quit Smoking	90		None	None
W0131	Adenocarcinoma	Stage IIA	Y	N	0.12	90	75	0	1		.126	1				Yes - Current Smoker	5	AR	Second-hand smoke	Second-hand smoke
W0133	Squamous Cell Carcinoma	Stage IA	Y	N	0.16	85	80	20	1		.20	1				No - Quit Smoking	68	NV	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0135	Squamous Cell Carcinoma	Stage IB	Y	N	0.3	100	50	20	1	4	.16	1	4	.05	1	No - Quit Smoking	125	CG	Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0139	Squamous Cell Carcinoma	Stage IB	Y	N	0.51	50	60	10	1	4	.54	1	4			No - Quit Smoking	68		Asbestos , Second-hand smoke	Asbestos , Second-hand smoke
W0140	Adenocarcinoma: BAC features	Stage IB	Y	N	0.22	100	50	0	1	4	1.96	3	4	.245	1	No - Quit Smoking	80		None	None
W0141	Squamous Cell Carcinoma	Stage IB	Y	N	0.23				1		.23	1				No - Quit Smoking	47		None	None
W0142	Adenocarcinoma	Stage IIIA	Y	N	0.42	60	40	10	1	4	.78	2		.13	1	Yes - Current Smoker	75		None	None
W0143	Adenocarcinoma	Stage IIA	Y	N	0.5	60	70	0	1	4	.52	2	4	.14	1	Yes - Current Smoker	18		None	None
W0144	Adenocarcinoma	Stage IIIA	Y	N	0.29	90	70	5	1	4	.70	1	4	.10	1	Never Smoked			None	None
W0145	Squamous Cell Carcinoma	Stage IIA	Y	N	0.25	100	90	5	1	4	.26	1	4			No - Quit Smoking	40		None	None
W0151	Adenocarcinoma		Y	N	0.51	100	30	0	2	4	.76	2	4	.10	1	No - Quit Smoking	43		None	None
W0152	Adenocarcinoma	Stage IIIA	Y	N	1.17	95	90	0	3	4	.77	3	4	.40	1	Never Smoked			None	None
W0153	Adenocarcinoma	Stage IIIA	Y	N	1.18	100	95	5	6	4	1.04	6	4	.185	1	No - Quit Smoking	150	AR	Second-hand smoke	Second-hand smoke
W0159	Carcinoid Tumor: Typical	Stage IA	Y	N	0.04	100	95	0	1		.36	1		.025	1	Never Smoked			None	None
W0161	Adenocarcinoma	Stage IA	Y	N	0.05	100	50	0	1		.094	1				Yes - Current Smoker	112		None	None
W0162	Adenocarcinoma: Mucinous Features	Stage IA	Y	N	0.23	90	80	0	1		.22	1				Never Smoked			None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0163	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.9	100	95	50	3	4	1.06	3	4	.16	1	Yes - Current Smoker	75		None	None
W0165	Squamous Cell Carcinoma	Stage IIB	Y	N	0.39	100	80	0	1	4	.29	1	4			Yes - Current Smoker			None	None
W0166	Sarcomatoid Carcinoma	Stage IB	Y	N	0.5	100	95	5	2	4	.37	2	4			No - Quit Smoking	74		Sarin or chemical weapons, Second-hand smoke	Sarin or chemical weapons, Second-hand smoke
W0168	Adenocarcinoma	Stage IA	Y	N	0.16	80	75	0		4	.024		4			No - Quit Smoking	68		None	None
W0173	Squamous Cell Carcinoma	Stage IA	Y	N	0.137	100	20	0	1		.33	1		.10	1	Yes - Current Smoker	52		None	None
W0177	Carcinoid Tumor: Typical	Stage IA	Y	N	0.065	100	98	0	1		.185	1				Never Smoked			None	None
W0179	Carcinoid Tumor: Typical	Stage IIB	Y	N	0.14	100	100	0	1		.10	1				Never Smoked			None	None
W0180	Adenocarcinoma	Stage IIIB	Y	N	0.08	100	40	5	1		.16	1				No - Quit Smoking	40		None	None
W0181	Squamous Cell Carcinoma	Stage IA	Y	N	0.05	100	70	5	1		.25	1				No - Quit Smoking	76		None	None
W0182	Squamous Cell Carcinoma		Y	N	0.11	90	20	0	1		.31	1				No - Quit Smoking	31		None	None
W0183	Adenocarcinoma	Stage IIA	Y	N	0.085	100	90	0	1		.055	1				Never Smoked			None	None
W0185	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.73	50	60	10	2	4	1.42	2	4	.29	1	No - Quit Smoking	81		None	None
W0187	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.31	90	85	0	1	4	.67	1	4	.16	1	No - Quit Smoking	5		None	None
W0189	Squamous Cell Carcinoma	Stage IA	Y	N	0.07	100	90	5			.065	1				No - Quit Smoking	68	AR	Second-hand smoke	Second-hand smoke
W0190	Carcinoid Tumor: Typical	Stage IA	Y	N	0.18	85	98	0	1		.26	1		.21	1	Never Smoked			None	None
W0194	Adenocarcinoma	Stage IIB	Y	N	0.24	85	75	80	1		.20	1		.10	1	No - Quit Smoking	103		None	None
W0196	Carcinoid Tumor: Typical	Stage IIB	Y	N	0.2	100	80	0	1	4	.21	1	4	.08	1	Never Smoked			None	None
W0197	Squamous Cell Carcinoma	Stage IIA	Y	N	0.38	100	45	10	1	4	.22	1	4			Yes - Current Smoker	16		None	None
W0199	Adenocarcinoma	Stage IIB	Y	N	1.16	100	90	0	5	4	.62	3	4			Yes - Current Smoker	51		None	None
W0200	Adenocarcinoma: Mucinous Features	Stage IIB	Y	N	0.43	100	95	0	1	4	.42	1	4	.10	1	Yes - Current Smoker	40		None	None
W0201	Bronchioalveolar Carcinoma	Stage IIB	Y	N	0.29	95	90	0	1	4	.24	1	4	.12	1	Never Smoked			None	None
W0202	Squamous Cell Carcinoma	Stage IIIA	Y	N	0.55						.45	4		.215	1	Yes - Current Smoker	100		None	None
W0203	Squamous Cell Carcinoma	Stage IB	Y	N	0.41	100	50	0	3	4	.92	3	4	.23	1	Yes - Current Smoker	20		None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0208	Adenocarcinoma	Stage IIA	Y	N	0.21	100	40	0	1	4	.33	1	4	.118	1	No - Quit Smoking	68		None	None
W0209	Adenocarcinoma	Stage IB	Y	N	0.22	33	30	0	1		.13	1		.33	1	No - Quit Smoking	60		None	None
W0210	Adenocarcinoma	Stage IIA	Y	N	0.26	45	50	0	1		.147	1				No - Quit Smoking	56	AF	Agent Orange, Asbestos, Burn pits, Jet fuel, Radon, Second-hand smoke, Toxic waste	Agent Orange, Asbestos, Burn pits, Jet fuel, Radon, Second-hand smoke, Toxic waste
W0211	Sarcomatoid Carcinoma	Stage IIA	Y	N	0.63	100	95	5	3	4	.50	2	4	.15	1	Yes - Current Smoker	60		None	None
W0213	Adenosquamous Carcinoma	Stage IA	Y	N	0.24	100	95	0	1	4	.18	1	4			Never Smoked			None	None
W0215	Adenocarcinoma	Stage IB	Y	N	0.12	100	75	0	1		.22	1				No - Quit Smoking	120		Second-hand smoke	Second-hand smoke
W0216	Adenocarcinoma	Stage IB	Y	N	0.14						.16			.04		Never Smoked			None	None
W0217	Adenocarcinoma	Stage IA	Y	N	0.35	80	30	0	1	4	.22	1	4			No - Quit Smoking	40	MB	Asbestos, Depleted Uranium, Jet fuel, Nuclear weapons, Nuclear-powered engines, Radon, Second-hand	Asbestos, Depleted Uranium, Jet fuel, Nuclear weapons, Nuclear-powered engines, Radon, Second-hand
W0218	Squamous Cell Carcinoma	Stage IA	Y	N	0.098	100	80	0	1		.20	1				No - Quit Smoking	20	NG	Second-hand smoke	Second-hand smoke
W0220	Adenocarcinoma	Stage IA	Y	N	1.26	100	33	0	2	4	1.20	2	4			No - Quit Smoking	60	NV	Second-hand smoke	Second-hand smoke
W0221	Carcinoid Tumor: Typical	Stage IA	Y	N	0.08	100	99	0	1		.05	1				Never Smoked		AR	Burn pits, Jet fuel, Sarin or chemical weapons, Second-hand smoke	Burn pits, Jet fuel, Sarin or chemical weapons, Second-hand smoke
W0222	Squamous Cell Carcinoma	Stage IIB	Y	N	0.55	90	90	20	2	4	.32	1	4			No - Quit Smoking	75		None	None
W0224	Squamous Cell Carcinoma		Y	N	0.12	100	90	0	1		.10	1				No - Quit Smoking	35		None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0228	Squamous Cell Carcinoma	Stage IB	Y	N	0.46	40	70	25	1		.36	1				No - Quit Smoking	48		None	None
W0231	Adenocarcinoma	Stage IA	Y	N	0.107	95	80	0	1		.16	1				No - Quit Smoking	80		Agent Orange, Jet fuel, Second-hand smoke	Agent Orange, Jet fuel, Second-hand smoke
W0232	Adenocarcinoma	Stage IA	Y	N	0.28	90	85	0	1	4	.52	1	4			No - Quit Smoking	50	AR	Sarin or chemical weapons, Second-hand smoke	Sarin or chemical weapons, Second-hand smoke
W0233	Sarcomatoid Carcinoma	Stage IA	Y	N	0.086	100	95	0	1		.15					Yes - Current Smoker	41		None	None
W0234	Adenocarcinoma	Stage IA	Y	N	0.03	100	80	0	1		.06	1				No - Quit Smoking	20	NG	Second-hand smoke	Second-hand smoke
W0235	Adenocarcinoma	Stage IA	Y	N	0.14	100	50	0	1		.115	1				Never Smoked			None	None
W0236	Squamous Cell Carcinoma	Stage	Y	N	0.098	100	50	0	1		.16	1				Yes - Current Smoker	100		None	None
W0237	Adenocarcinoma	Stage IA	Y	N	0.082	100	30	0	1		.14	1				Never Smoked			None	None
W0238	Squamous Cell Carcinoma	Stage IB	Y	N	1.36	100	30	10	7	4	.87	5	4	.25	1	Yes - Current Smoker	126		None	None
W0241	Adenocarcinoma	Stage IA	Y	N	0.097	40	75	0			.24					No - Quit Smoking	30		None	None
W0243	Squamous Cell Carcinoma	Stage IA	Y	N	0.25	95	50	5	1	4	.70	1	4			Yes - Current Smoker	150		None	None
W0244	Adenocarcinoma	Stage IA	Y	N	0.1	98	75	0	1		.24	1		.14	1	No - Quit Smoking	60		None	None
W0246	Squamous Cell Carcinoma	Stage IB	Y	N	0.14	90	30	5	1		.39	1				No - Quit Smoking	75	CG	Second-hand smoke	Second-hand smoke
W0247	Squamous Cell Carcinoma	Stage IIB	Y	N	0.08	95	50	5	1		.14	1				No - Quit Smoking	102	NV	Asbestos, Jet fuel, Nuclear weapons, Nuclear-powered engines, Radon, Second-hand smoke	Asbestos, Jet fuel, Nuclear weapons, Nuclear-powered engines, Radon, Second-hand smoke
W0248	Squamous Cell Carcinoma	Stage IIA	Y	N	0.24	100	40	20	1	4	.23	1	4			No - Quit Smoking	60		Second-hand smoke	Second-hand smoke
W0250	Adenocarcinoma	Stage IA	Y	N	0.07	100	50	0	1		.10	1				No - Quit Smoking	20		None	None
W0253	Adenocarcinoma	Stage IA	Y	N	0.26	70	50	0	3		.16	2				Yes - Current Smoker	50		None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0254	Adenocarcinoma: BAC features	Stage IA	Y	N	0.15	45	70	0	1		.10	1				No - Quit Smoking	90	AR	Second-hand smoke	Second-hand smoke
W0255	Small Cell Carcinoma	Stage IIA	Y	N	0.17	90	70	25	2		.11	2				Yes - Current Smoker	46	NV	Asbestos, Second-hand smoke	Asbestos, Second-hand smoke
W0256	Squamous Cell Carcinoma	Stage IIA	Y	N	0.21	100	60	5	3		.20	2		.25	2	No - Quit Smoking		AF	Second-hand smoke	Second-hand smoke
W0257	Squamous Cell Carcinoma	Stage IIA	Y	N	0.48	90	70	20	3		.44	3				No - Quit Smoking	105		None	None
W0258	Adenocarcinoma	Stage IB	Y	Y	0.42	2	80	0	1		.78	2				Yes - Current Smoker	20		None	None
W0259	Adenocarcinoma: BAC features	Stage IA	Y	N	0.12	30	70	0	1		.24	1		.11	1	Never Smoked			None	None
W0261	Adenocarcinoma	Stage IA	Y	N	0.1	35	70	0	1		.20	1		.35	2	No - Quit Smoking	21		None	None
W0262	Squamous Cell Carcinoma	Stage IA	Y	N	0.27	70	70	30	2		.36	2				Yes - Current Smoker	25	NV	Asbestos, Jet fuel, Nuclear-powered engines, Second-hand smoke, Toxic waste sites	Asbestos, Jet fuel, Nuclear-powered engines, Second-hand smoke, Toxic waste sites
W0266	Adenocarcinoma	Stage IA	Y	N	0.2	50	70	0	1		.33	1				No - Quit Smoking	15		None	None
W0280	Small Cell Carcinoma	Stage IA	Y	N	0.16	90	70	10	2		.35	2		.15	1	Yes - Current Smoker	90		None	None
W0283	Adenocarcinoma	Stage IA	Y	N	0.23	100	50	0	2		.21	2		.11	1	No - Quit Smoking	40		None	None
W0284	Carcinoid Tumor: Typical	Stage IA	Y	N	0.08	85	95	0	1		.34	2				No - Quit Smoking	68		None	None
W0286	Carcinoid Tumor: Typical	Stage IA	Y	N		100	99	0	2			3				Never Smoked			None	None
W0287	Adenocarcinoma	Stage IIIA	Y	N	0.61	100	50	15	4		.45	4		.23	2	Yes - Current Smoker	40		None	None
W0288	Squamous Cell Carcinoma	Stage IA	Y	N	0.25	50	50	15	2		.31	2		.15	1	Yes - Current Smoker	66		None	None
W0289	Squamous Cell Carcinoma	Stage IIA	Y	N	1.08	70	60	15	5		.42	3				Yes - Current Smoker	32		None	None
W0292	Adenocarcinoma	Stage IA	Y	N	0.06	100	50	0	1		.26	1				No - Quit Smoking	60	NV	Agent Orange, Asbestos, Second-hand smoke	Agent Orange, Asbestos, Second-hand smoke
W0295	Adenocarcinoma: BAC features	Stage IA	Y	N	0.32	40	50	0	2		.50	3				No - Quit Smoking	30		None	None
W0298	Carcinoid Tumor: Atypical	Stage IA	Y	N	0.21	100	95	5	2		.14	2		.09	1	Never Smoked			None	None

Subject ID	Diagnosis	Stage	Tumor Avail.	Preop Therapy	Initial Tumor Weight (g)	Tumor Area %	Tumor Cellularity %	Tumor Necrosis %	# Tumor Aliquots	# Molecular Aliquots	Initial Normal Tissue Weight (g)	# Banked Normal Aliquots	# Normal Molecular Aliquots	Initial Bronchus Weight (g)	# Bronchus Aliquots	Smoking Hx	Pack/Yr	Military Hx	Exp/MIL	Exp/CIV
W0299	Adenocarcinoma	Stage IA	Y	N	0.58	45	70	2	2		1.06	2		.41	2	Yes - Current Smoker	50		None	None
W0304	Squamous Cell Carcinoma	Stage IIA	Y	N	0.24	80	50	0	2		.44	3				Yes - Current Smoker	150		None	None
W0305	Adenocarcinoma	Stage IIIA	Y	N	0.24	90	75	10	2		.38	2		.05	1	Yes - Current Smoker	30		None	None
W0306	Adenocarcinoma	Stage IIIA	Y	N	0.23	90	70	5	2		.71	4				Yes - Current Smoker	30		None	None
W0309	Adenocarcinoma	Stage IA	Y	N	0.18	100	60	5	2		.24	2				No - Quit Smoking	34		None	None
W0312	Adenocarcinoma	Stage IA	Y	N	0.12	40	50	0	1		0.12	1		.05	1	Yes - Current Smoker	69	AR	None	None
W0314	Squamous Cell Carcinoma	Stage IA	Y	N	0.15	85	40	5	2		0.31	2		0.45	1	No - Quit Smoking	13		None	None
W0317	Adenocarcinoma: BAC features	Stage IA	Y	N	0.22	75	30	0	2		0.49	2		.136	1	No - Quit Smoking	51		None	None
W0318	Sarcomatoid Carcinoma	Stage IIB	Y	N	1.02	100	80	5	5		1.69	5		0.15		No - Quit Smoking	100		None	None
W0320	Adenocarcinoma	Stage IB	Y	N	0.17	85	70	0	2		0.12	2		0.08	1	No - Quit Smoking	4		None	None
W0323	Adenocarcinoma	Stage IIB	Y	Y	0.09	90	10	0	1		0.24	1				Yes - Current Smoker	20		None	None
W0324	Adenocarcinoma	Stage IIA	Y	N	0.31	40	50	0	2		0.41	2				Never Smoked			None	None
W0326	Adenocarcinoma	Stage IA	Y	N	0.12	90	70	0	2		.26	2				Yes - Current Smoker	30		None	None